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FIG. 1A

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FIG. 1B

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FIG. 1C

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FIG. 1D

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FIG. 1E

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FIG. 1F

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```

FIG. 1G

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FIG. 1H

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FIG. 11

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FIG. 1J

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FIG. 1K

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FIG. 1L

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FIG. 1M

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FIG. 1N

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FIG. 10

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FIG. 1P

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FIG. 1Q

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FIG. 1R

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FIG. 1S

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FIG. 1T

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FIG. 1U

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ccaaactaat tcttgaagca actaaaatta cagacactga caagacatat 168602220
caaaacacaa aagactaaat taccaacatg aagaataaaa aggggggatat 168602170
tagtatggat attataaata tttaaagtgat aataggagca gactttgaac 168602120
aagtttatct taatgatttt aaagagtaaa tgaattgaa aataga aaca 168602070
ggaaggaata gaaaatctgt cttatatcaa tttagagaaat taaatattta 168602020
aaacattcca tcaaaaaatc taggctcaga tggctttagc aataaattct 168601970
aacaagttt taaggaataa agtatagcaa cttaatacaa actcattctg 168601920
ttaaaagaat gaacatttgt ctatttagcc agcataacc t tgagaacaaa 168601870
accagtaag gacatttcaa gaaaaaata taaaccaatg tgattcatga 168601820
atatttttac aaatttccta acaaaatact agcaaataa ttcagttata 168601770
ggtgaaaagg ataatatatt ccaaccaa atagcttatt caaagaaggc 168601720
aagggttggt taatagtgga aatttcacct c tcaataaaa aacatgctga 168601670
aaaactagga cagcaaaacc aaagacatac acaacatcta caataaaatt 168601620
atttgagca gtaattcagt gaatccccag tagatggtt caagactgtt 168601570
gtggtatctc atctgtgtgg gagaaagcag agggaaaggca gctacggttc 168601520
ttaggacctc gagaagaggg catc ccttaa attacccatc tctactcatt 168601470
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gactgataat acttggaaca ttctggggcc tataaactct tcaaacaaaa 168601320
atgaggctct tttccta gga aaggctaac attggtgaaga aacttctggg 168601270
agcagttgat cagaaaagga acaatagtag aaataaaaag agaactcctt 168601220
gagaagtata atgttagaat tcaccagaag agtcaaatct tggaaaatac 168601170
aaggccatgt ttttcattgc tttgcaaaaa ccagaatgag ctctagagtc 168601120
ttaaacttta aaaaaaaaaa aaaaaaaaaa ctatttcaat gctccattct 168601070
aaaactacag ggaattttat ttcacttaaa aaataagcag ttaaaggat 168601020
tctgattgaa gcccatataa aggtttttta ataagaaaa gtatgagaag 168600970
cagaactttc ttagaacaac tgaaaacata taaaaggaga taccacaaa 168600920

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FIG. 1V

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gcaataaacc tgtaatagaa tagttgaaaa ctggctagaa gaatttaaga 168600870
acataataat tataagagta caacataagt ctgaatttca aaaactcaga 168600820
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aaagaactta acaatagaag tacttcacaaa taagtactgc caatata ata 168600720
ctgaagaaaa actaacttgt agaaattaca ctatccagtt tcaagactta 168600670
ctgtaaaagct atagtaatcc agacagcatg atattttgtga aaaaatagac 168600620
acacacatca acgggacaga atagcgagcc cagaaataga cctatgcaaa 168600570
tacagttaac tgatttttga caaatgtgta aagataattc aagggagaag 168600520
gaataatcct ttcaacaagt ggtgctgata cagaaaaatg aatctggata 168600470
caaatcttac atcttacaca aaattgaagt cgagatgatt catagaccta 168600420
catgtaaaat gtaaaactat aaagaaaata ttttcacaaa atgtatctga 168600370
taagaatttt atatgcaaaa tatacaaaga ga tttaaaaa ctcaacagta 168600320
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aataggcact tcattgaaga ggatatacag ctggcaagta agcatacaaa 168600220
aacatactca acagcttctt tcattagggg gatgcaataa ggtgtgtagt 168600170
gagatactac tacacaccta ttaca gtgggt gaaaatttaa aaaattgaca 168600120
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tgtatcctgg atgggatgct gaaataaaca cagaaagtaa aaactaagaa 168598120
aatctgaaaa aagtattgac tttagtgaat aataaatgca acaggattgc 168598070

```

FIG. 1W

ttcattaatt	atgacaactg	tattatataa	gatgttaata	ggggaaattg	168598 020
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aatcaaaatc	tatttctaata	taaaaagttt	ttatgctgac	ccatgaaacc	168597920
cttcttgatt	tacagactta	cgagcaaaat	aaatgttttt	tatgccaaaa	168597870
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tactgcttta	aaagaaatag	aagatggaaa	gagtattctt	aagtcaacaa	168597770
gaaattaata	tagagataaa	gggattttaag	agaaagttag	agttaggcaa	168597720
agaggttcta	acaaacttat	aataggaatc	tctgaggaag	aaaacaatgg	168597670
aacaaaacaa	aactgatagt	actgataatt	actattcaag	aa aatgttct	168597620
taaaagatga	ttagaaggta	cctcgaggaa	gtgcactgaa	tgtttggaaa	168597570
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gaatgcaaat	gacca agaaa	agcaaaagaca	gtctagaaga	cccagatata	168595270
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FIG. 1X

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ggatggtctg tctaaaaaat tgtgctagag taattgggta accatatgga 168595170
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tataactgac aaaggactta ttttagaatt gagaagaact cctacaaatc 168594570
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tgtaccttcc actcttgggt acatacccta caaaaagaca tacacaggaa 168594220
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FIG. 1Y

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FIG. 1Z


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FIG. 1A2

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FIG. 1B2

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FIG. 1C2

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FIG. 1D2

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FIG. 1E2

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FIG. 1F2

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FIG. 1G2

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FIG. 1H2


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FIG. 112

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agggtaaaaa aaactgctta gggatcagaa ttttaaagta tgaccacaaa 168563820
cttctttctc ctatagaaat gtcaaaaaata aaggggtttt taa ttgctat 168563770
taggactttc agaactttaca aactaaaaaa taactgattt caaaactgat 168563720
gtaagccagc ctaaatgtca ttgatcaaact actgaatacc atggaagaca 168563670
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FIG. 1J2

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ctgtgttcta gcagtgaag cctgcttccc aaatgtctct gtctctctggc 168560970
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FIG. 1K2

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FIG. 1L2

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FIG. 1M2

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cactgcactc	cagcctgctg	acaaagtgag	actccgtctc	aaaaaaaaaa	168549670
aaaaaaaaaa	acctat agct	gcataagcag	ttgtactcac	agccagatgg	168549620

FIG. 1N2

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aggacttatt tattctccat tcagttatata gaggatatttg acagcttta 168549570
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FIG. 102

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FIG. 1P2

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FIG. 1Q2

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FIG. 1R2

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FIG. 1S2

701 422

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FIG. 1T2

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```

FIG. 1U2

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FIG. 1V2

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FIG. 1W2

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FIG. 1X2

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FIG. 1Y2

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FIG. 1Z2

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FIG. 1A3

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FIG. 1B3

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FIG. 1C3

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FIG. 1D3

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FIG. 1E3

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FIG. 1F3


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FIG. 1G3

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acttgttaga	atacctattg	ctgggtccca	ctcccagagt	tcagaattca	168493920
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gtatgtttta	ctattttaac	ttgtgcattg	ttgtgtgttc	gttaacagct	168493720
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ctaaacctct	agtctggttt	ccttcattaa	tagcatctta	cattactatg	168492720
gtacatttgt	caaaactaag	aaactggctg	ggcacgggtg	ctcatgcctg	168492670
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FIG. 1H3

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agccgagatt gtgcccattgc actccagcct gtgtgacaga gcaagacttc 168492420
atctcaggaa aaacaaacaa acaaaacaaac aaacaaacaa acaaaaaaaa 168492370
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gccatttcag cacattagag aggggcatct tactcacacg tgctctcctg 168491720
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ttatgctttt taagaacat tatataacat gctttttaat atgctttcat 168490670
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FIG. 113

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FIG. 1J3

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tttgtctcaca	gcaaccctgc	ttgtctatgt	gtgtgtgtat	gtgtatttaa	168486870
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FIG. 1K3

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FIG. 1L3

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tagtgatggc caaggtccta aatcctccag acct atgtat cctacaaatt 168481170
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FIG. 1M3

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FIG. 1N3

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FIG. 103

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accagtata tacagctctt agctccagg agctatgcag accacagctc 168469920
ttacgaaatt aaataaagct gagaaatgca tcagggtcta taaaatcaag 168469870
agggacgctt gattttccac cctgtccacc tcccacacac cttcacactt 168469820

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FIG. 1P3

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gggaatacaa gcttgagcta ggagaagtgt gagccacagg gatctatga a 168469770
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ggagcagggt ccagccatat gggcagccat gaggaggcaa ggactgtgga 168469670
gcctgctcag tgttaattag aagcaaagga aggcctggct gaagtggctg 168469620
caaggacgcc cagcagcgac catttcctgc acagggcagg c ggccttgga 168469570
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tttgacttaa gattaaatag gaccctctgt tgaattggc tgttagtttt 168467020
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FIG. 1Q3

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caaagatgtc agggaaaaata tacaagagga aattggaaaa tgtgattgag 168466920
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gggggtattt ccaaattgag ctttgagggg tggagcccag aga aggagag 168466670
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FIG. 1R3

gaggaggcaa	ggtgtaggca	aggagaccaa	ggagtccctgg	aggcagatgg	168464070
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FIG. 1S3

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FIG. 1T3

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```

FIG. 1U3

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FIG. 1V3

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FIG. 1W3

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FIG. 1X3

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FIG. 1Y3

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FIG. 1Z3

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FIG. 1A4

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FIG. 1B4

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FIG. 1C4

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FIG. 1D4

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FIG. 1E4

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FIG. 1F4

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FIG. 1G4

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FIG. 1H4

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FIG. 114

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FIG. 1J4

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tcattttggg	tttctctttt	tttccccctc	cttctctctg	ctttcttctt	168410520
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acagagatga	ctgtcaccta	gttcctgctc	tggagctgct	caggacctag	168410420
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cattgtatat	gaaggccccc	agaatgaaag	cacataacct	attcaggggag	168410220
tgacagtgtg	gtcgggggag	tttggtc agc	ccagctggac	tgaaggagtg	168410170
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taggttccat	ctagggtctc	agatggaacc	tccagtctgc	cgtgaagacc	168410020
tctggagact	actgaaggca	gagaccccaa	taaagatggg	aataagggcc	168409970

FIG. 1K4

tgggttagga cagcgggtag cagagatggg atgaatggtt agattcaaaa 168409920
 ggcatcttcag ctgtaaaatc agcagagcctt ggagacagat ttgaaagcgg 168409870
 gagaagaggt caaggggaaa atgaatatga ggggttttagc tgaagcggta 168409820
 gggtagatga gggacattgt tcaccaggat aaggaggatg gttgcaggag 168409770
 gatccagagg aggcctcgaga aggtgggttaa ccaggagga gtcagttagt 168409720
 gcacttttgg gcccgttgag ttggggggcgt ctgcaggaca tccagggtggg 168409670
 gaagtatgtt ttttcagcta tgcattgttg tgggggtttt tttaggttttg 16840 9620
 gttttgcttc tccagtctac gaatagaact tgaatcctcc ttaaattcat 168409570
 gaacttgaca gtaacaataa tgtcagaatt agtatgtcct tactgcgcc 168409520
 agagtagaca ccctgtagca agcgcctaga atatagaaag caaatgggtgt 168409470
 ttttggcagt ctgatacagg caccagcgtg ctgagtaggg gcacaggcc t 168409420
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 gcccactgt ttagagacat tctcttttcta gcaacccctg ccctttcttt 168407320
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 aaattatatt attcagtgtc ttttagtcta tgcactatgt tgtgtgacca 168407220
 tcaccactgt ctaattccag agcatcccat caccctaaag agaaatctgg 168407170
 taccatttaa caatttctcc ccatccccc cccaccttc ctccagcccc 168407120

FIG. 1L4


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FIG. 1M4

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FIG. 1N4

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FIG. 104

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gcccgcacc	acgcctggct	aattttttgt	gttttttagta	gagacgtggg	168398020
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tgcctcggcc	tcccaaagtt	ttgggattac	aggcgtgagc	cactgtgcct	168397920
ggcctaagt	aagttaattct	tataaagcac	ttggaagaat	actgacataa	168397870
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acaacataga	cagccctgga	gtgcactgtg	ttaagtga	taaaccagac	168395770
aaagaaagaa	aaagattgca	ttgtttcaag	tatatgtgga	atctaaaaac	168395720

FIG. 1P4

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attaccaggc aggggatagc tagggaggag atgggagatg gaggtctgta 168395620
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atctcagctg ctcttgccac caaaaaaaa aaaaaaaaat 168395470
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tgtgttatct tttttactat gtgtttgtat cccatatcat gttgttcctt 168395370
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gcaggtgtgc cctcccaaga aaatctagct tgggtgtaac ctccatgaac 168394070
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FIG. 1Q4

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FIG. 1R4

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FIG. 1S4

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FIG. 1T4


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FIG. 1U4

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FIG. 1V4

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FIG. 1W4

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FIG. 1X4

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ttcatctggc attgttaggg ctagcaactc tctgtgggtca cactgggtac 168372770
ctgagaaggt gctgccaaat cacctctggg cctgtgtttg cctaaacatt 168372720
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gctttcagaa tagtttatct gtgaggcaaa ggaaggcgag gaatactttc 1683713 20
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aagttaaaaa aaaacaacaa cagcagcagc aacaacaaaa cagatggtga 168371170
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cggaagaaa cgctattaaag aggggcttct tacttgaga aagtgaagat 168370220
agttaaaact ctagcagagc aagtcagtg atattcagtg aagcagacag 168370170
gctgcagtg atgt aggcaa acacatgcag actatacacc caaaatacac 168370120
acttaacaca cacataggta tgtgtcatgc aaactactta cctatccaga 168370070

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FIG. 1Y4

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gattcctaga cactttcaac ctaatcttat tttaacatct attcgttttg 168370020
gatcaaaaag cacgtagaat aagggttgggt ccaaagggac tgcctgatgt 1683699 70
tccaccctt catccttgggt gatcagggca gagcccttg aattgtcaat 168369920
gagtcagat gacagactag gaaaacatcc aagatactga gacttggcag 168369870
tatacaggtt gtattagtct gttttcacac tgctttaaag acatacctga 168369820
gactgggtca ttataaaagg aaaaaaatat atttgagtca cagtttcaca 168369770
tggtcgagga ggctcagga aacttacaat catagcagaa ggggaagcag 168369720
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FIG. 124

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FIG. 1A5

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gatccaacaa ccttatggga tgggggtaat tattactgtt tatccaatca 168361920
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FIG. 1B5

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FIG. 1C5

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FIG. 1D5

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FIG. 1E5

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FIG. 1F5

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FIG. 1G5

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FIG. 1H5

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FIG. 115

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FIG. 1J5


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ggctaaggga tatggggctt ctttttgaag taatgaaac tgtctaatat 168336220
tgacgacagt gatggttgca cacatctgtg tatatactaa aaccactgaa 168336170
ttctgtcctt taaatggatg aattacaagc cgtgtaaatt ttatctcaat 168336120
aaggcagttt aaaatttttc agtgaaggcc aggcaggtg gctcacgcct 168336070
ataatcctag cactttggag gctgaggcag gtgaatcacc tgagatcgga 168336020
gttcaagacc agcctggcca acatggcaaa acccgtctc aactaaaaat 168335970
agaaaaatga gctgggtgtg gcagtgagca cctgtaatcc cagctactca 1683359 20
ggaggctgag gtaggagaat cgcttgaacc cgggaggcag aggttgcagt 168335870

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FIG. 1K5

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gagccgagat agcaccactg cactccagcc tgggcacaaaa gagtgaact 168335820
ctgtctccaa aataataata ataataatta aaattttcaa tgaaaaagag 168335770
ggaaaaaag ttattttctag atgggttttg ttctgtgcat g ggtcagaag 168335720
ccagcagtta gaaaactgta gttatattca tggctgtcat ggaaacaagg 168335670
catgggggac tggctctttgt cccattattg cctttgggct cttcaaggac 168335620
aagctgggagc ttaacatact gaagttggaa agaatttcag aggtcatcta 168335570
aggaaagact gtgccagcta ctctcagcat tttg cttagc caaacacttc 168335520
atctctgctt ttaccaggaa cttacaccta aagaggaaaa gaatccatgt 168335470
gggggatatc tgtggcacgg cctgggggga cggaaggact ggggaaagaa 168335420
tgcatttgac ctgcgaacag aaggagagag tagagtgaac acagctgcct 168335370
tgaagtgtgg atgaaatgtt acatgct tct cacaccaat gtgaggcaac 168335320
aagcaaaactc tgagttaaaa caggcaaaaga caggtatgag tctagagaag 168335270
acagcaagag gaaggaagga aaggaatctg acaggcatgg aaccttcac 168335220
aggatttcat tccacactga gtgcttccca gtggccatct cgtgtcatcc 168335170
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ggccctaaag caatcctagg aaaaggggtcc gccataatcc acccagttgc 168334970
tccagccaaa aa cctaagac tctttctttt ctgatttctc tcttcacaca 168334920
cacacacaca cacacacaca cacatgttgt cctgcagcta 168334870
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ccccacaaca aatgccataa cttgctatga cagctgtaag caatataatc 168333170
tgtggccata aaacagccca gtgctggact cctgcacaaa tctgccttg 168333120
aactgtcata cactgtttta gttcagagga gctgtttgtt tttgttttg 168333070
tctttgtttt tttttttttt ttatttgaga cagagtttca cttttgtcgc 168333020

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FIG. 1L5

ccaggctgga gtgcagtggc gctatctcag ctcactgcaa cctccgctg 168332970
cggggttcaa gcaattatct tgccccagcc tcccgcgtag ctgggactac 168332920
aggcatgtgc caccacgctt ggctattttt gtatttttag tagagatggg 168332870
gtttcaccat gttggccagg ctggctctga actcctgact tca ggtgatc 168332820
cgctcgctc agcctcccaa agtgcagga ttacaggtgt cagccaccac 168332770
gcctggcctt gtctttgctg ttttttgtt gtttgtttgt ttagacagag 168332720
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gcgggagcca ctgcgcccag ccttgtctt t gcttcttaaa ggatgatgag 168332420
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gctctccagg agctggggct gctatagggg aagaaagcaa gttcatggaa 168332270
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tcaggagatc gagaccatcc cggctaaaaa ggtgaaacc cgtctctact 168330170

FIG. 1M5

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FIG. 1N5

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FIG. 105

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FIG. 1P5

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FIG. 1Q5

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FIG. 1R5

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FIG. 1S5

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FIG. 1T5

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FIG. 1U5

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FIG. 1V5

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FIG. 1W5

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FIG. 1X5

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FIG. 1Y5

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FIG. 1Z5


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FIG. 1A6

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FIG. 1B6

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```

FIG. 1C6

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FIG. 1D6

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FIG. 1E6

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FIG. 1F6

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tggcagagcc ctgagtcaca tagtctagtt ccaattcttg actctactgc 168275070
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FIG. 1G6

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ggcgccctgcc accacacgcg gctaattttt tttgtaattt ttagtagaga 168273120
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FIG. 1H6

tccatagaag	aaagactgaa	agaaataagc	aaaatattta	cagtgggttat	168270270
tttgaacaga	aaaactacag	gtaattgctt	ctacgcttcc	tgtgttttcc	168270220
aaaatgtgct	atgctatatg	tatttctttc	aggaaataat	aaatgcattt	168270170
ctttatcata	catgtaatac	acagtcattg	aagtcaactga	agcaagcttg	168270120
gacatgacta	gtcatcaaaa	agaggaaaat	ggaagtcatt	cgttttatca	168270070
caaaccacaga	actcacgact	gatggcactt	aacatgggtca	cacactacct	168270020
tcctggcctt	ttctttgcag	atacatgatt	atactttact	acataagaaa	168269970
gaaaggccct	ctaactgggg	aggatctagg	tacatttgca	accaatcaac	168269920
cagcaacgtg	gaagaggaaa	aaggatagaa	aggaattagg	ctcttatggt	168269870
cagcctgtca	gtgtgaggcc	ttatggctga	gactaccctt	ccaagctgac	168269820
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ccttctttct	aaatgggtga	tggtggaaa	gcagggcagg	catgctaacc	168268320
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FIG. 116

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FIG. 1J6

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FIG. 1K6

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FIG. 1L6

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FIG. 1M6

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FIG. 1N6

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aatttttttt aatgttatgg aaaaggcacc acattggtct cagtgcagag 168251220
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```

FIG. 106

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FIG. 1P6

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FIG. 1Q6

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FIG. 1R6

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```

FIG. 1S6

150/ 299

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tccaggaggg agaaactctg tgcctcgcat ttgtacgtt ctttctgggt 168236220
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```

FIG. 1T6

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 aacagtcttg caggaccact agggaaaagt tgcttatcct ctaggatatag 168235820
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FIG. 1U6

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aaaaaggctt gaaaaataac cactggactt gataaataat ctttcaggtc 168233220
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FIG. 1V6

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FIG. 1W6

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tgagcagtg	acctgtacc	cagtggttag	tcttttatcc	cttgccacct	168224770
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FIG. 1X6

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FIG. 1Y6

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FIG. 1Z6

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FIG. 1A7

ctggcataag acacttaaaa ggtgctcagt tcaatactgg atgcttagta 168216120
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FIG. 1B7

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FIG. 1C7

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FIG. 1D7

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FIG. 1E7

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FIG. 1F7


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FIG. 1G7

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FIG. 1H7

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FIG. 117

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FIG. 1J7

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FIG. 1K7

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FIG. 1L7

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FIG. 1M7

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FIG. 1N7


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FIG. 107

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FIG. 1P7

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FIG. 1Q7

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FIG. 1R7

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FIG. 1S7

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FIG. 1T7

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FIG. 1U7

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FIG. 1V7

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FIG. 1W7

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FIG. 1X7

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FIG. 1Y7

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FIG. 1Z7

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FIG. 1A8

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```

FIG. 1B8

tgcagggggg	agggatgttg	caaagagtat	agaccgatag	gatgggtaga	168139170
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FIG. 1C8

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FIG. 1D8


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FIG. 1E8

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FIG. 1F8

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FIG. 1G8

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FIG. 1H8

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FIG. 118

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cattttcttg atccattcat cactgacca tacagtctgt ttcacaaagg 1681167 70
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GGGAGCTTTC GATGGAGCAG CCAGCGTGCA GGAGCTGATG CTGACAGGGA 168116470
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FIG. 1J8

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FIG. 1K8

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FIG. 1L8


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FIG. 1M8

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FIG. 1N8

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FIG. 108

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FIG. 1P8

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FIG. 1Q8

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FIG. 1R8

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FIG. 1S8

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FIG. 1T8

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FIG. 1U8

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FIG. 1V8

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FIG. 1W8

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FIG. 1X8

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FIG. 1Y8

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FIG. 1Z8

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```

FIG. 1A9

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FIG. 1B9


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FIG. 1C9

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FIG. 1D9

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tctaagggtat	gccctcagcc	cacaagggct	tctggtccat	gaaaagaatc	168056920
actgtataga	ggttagtcat	tggtaagaa	gaatcagctt	agtgccagaa	168056870
gagagatgac	agaaatccca	gtagtgaata	tggagagggc	agtggggctc	168056820
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cagatgggca	gcaggagggg	actgaggagg	cattgatgaa	gtggtttcc	168056720
gccgcagttg	agggcctacct	ggtgtctgcc	gttgaccagg	gtgcactgct	168056670
gatttggtag	actttgggtcc	tgagagttag	tgcttgatata	atctcattta	168056620
atctccacaa	ctgccaaagt	caaggtcaag	cagctaggaa	gtgtcaacta	168056570

FIG. 1E9

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gaattcattc cccggaaact caggtagaca atgaggcttt gtgggtttgct 168056520
ctgtcccaga aaatgtgcaa gtcccacaca gatacttgct tgcttctctg 168056470
gggtgtctcca gatgacaaga aaggaggaggc ttctcaggaa catagtgcc t 168056420
tctgtgtgtct tgagaggctg aaggcaaaat ttggagaggg aggggttcag 168056370
tgctccctcc caggacatgg ttggggtcag cctctcccca ccatagcaaa 168056320
gaacagactt aggggctatc tggtactcat taccctgcag ccagccctct 168056270
ggacctacct gcctataccc tgggagcagg agctaaggca g ctttccccg 168056220
ccctgctccc accccattcc tggagagaac gttcatggtt agacctttcc 168056170
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TGTGTGCTG AGCTGAACCT CTGTGAGCAT GAGGCCAAGT GCATCCCCCT 168055170
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accttacaga gcctccccta gagatgaggg ccctgggccc agagctccat 168054120
gcctgtgtct atgagtcttt a aggagaatg cccaccagtg gcatctccag 168054070
cctctggggc cagaagctca tgctctaggt cttgatgggt ccagaagctg 168054020
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tctgggggta tttgtgacta tgattctaaa caacaagact taggacttca 168053920
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aatcatagaa tctctgaaac ttgaacttgt aagctcttag aatcttagaa 168053820
tctaagaagc aggagttcta gttgtgtctc cagccagccc acccatcagt 168053770
ccacagatct tgattgtgtg gagtatagtg gggattggaa gatgggtttg 168053720

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FIG. 1F9

attcatctcc tcaaggccct tgccatggac ctaggggaag aagatttgac 168053670
 actgagcaaa tatttagaaa agaagaagt tctaggcccc acgatttctgg 168053620
 ctctgttgct ggggttctga ggaaggaaaa ggctgctgga ggagagaagc 168053570
 agccccacc ctttaggaat agaattgtggg tgacccttga ggggtgggtgg 168053520
 aatttggatg ggttgagaga aggaaggacg gctccactgg gggaagaaga 168053470
 agcaagttaa taagggtgac aagcagacat gagcatgtct tttatcgtgt 168053420
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 gggaaggggc agggaatggg gatctgccc tggagaggag ataaaattgcc 168052970
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 tggtcagaag tggcttaggg gccaccctgg ccaacatgggt gaaacccctg 168052870
 ctctactgaa aatacaaaaa ttagccaggt gtgggcacac tcttgcaatc 168052820
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 ggaataggga gaacatccc tttgccctga ttcttccgtg gggctgctta 168050920
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FIG. 1G9

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gcttatatgt gcctgtgggt gcacctaagc ctctgtgact cagccccctcg 168050670
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CAATGATGAC TGTGTGGCC ACAAGTGCCG CCACGGGGCC CAGTGCCTGG 168049570
ACACAATCAA TGGCTACACA TGCACCTGCC CCCAGGGCTT CAGgtaaggc 168049520
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CTTCTGTGAA CACCCCCAC CCATGGTCCT ACTGCAGACC AGCCCATGCG 168048420
ACCACTACGA GTGCCAGAAC GGGGCCAGT GCATCGTGGT GCAGCAGGAG 168048370
CCCACCTGCC GCTGCCACC AGGCTTCGCC GGCCCCAGAT GCGAGAAGCT 168048320
CATCACTGTC AACTTCGTGG GCAAA GACTC CTACGTGGAA CTGGCCTCCG 168048270
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FIG. 1H9

cactcattcc	tccagaaaat	atgcattcaa	ctattgtaca	ccagacactg	168047970
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cgagaacttt	ttaaattatc	tttggccagg	tgtggtggct	catgcctata	168047770
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GGCCACGTGC	GGCTGGTCTA	TGACAGCCTG	AGTTCCCCCTC	CAACCACAGT	168046520
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cctggcttgt	gtgtgatggg	tgtggcagct	ggactttcac	ttcagatgc t	168045970
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FIG. 119

ttgtcaaggc	ccttgataaa	tcattccaaca	aacccaattt	gaaagccatt	168045120
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FIG. 1J9


```

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FIG. 1K9

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FIG. 1L9

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FIG. 1M9

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 agagcaatac tgggtgtaaa gcacttaaca caattcctgg tacatagcca 168032920
 gtggtacctg ctggttagtag tgggttggtg gtaattctta ttttaagtgg 168032870
 taaagcaatt aaaatgttta gagaatggct agattctttc aagcagttg t 168032820
 ttgctacttg gctgcatgag gtgtgtgtgt aaatcagcaa gccagcctct 168032770
 gctgtgggtca gcctcacag tggacactgg gtgacactcg caggcttctg 168032720
 gctggttggc caggggaacc aaggtggta agaaaagaga tgcacagcct 168032670
 aggaacacaga gaaagctatt ggactgtact cagctccggg t cccctggtc 168032620
 cctggctggg tggacagagg gagtccccag cagcaccaac tctgatccag 168032570
 ttcccttctc atcctcctct ctgcccctag ATGCCACCAT GGAAAATGTG 168032520
 TGGCAACTGG GACCTCATAC ATGTGCAAGT GTGCCGAGGG CTATGGAGGG 168032470
 GACTTGTGTG ACAACAAGAA TGACTCTGCC AATG CTTGCT CAGCCTTCAA 168032420
 GTGTACCAT GGGCAGTGCC ACATCTCAGA CCAAGGGGAG CCTACTGCC 168032370
 TGTGCCAGCC CGGCTTTAGC GGCGAGCACT GCCAACAAGg tgggtctact 168032320
 gtgctgttgg gagggaggaa gtgggggtca gagtggact tcacatccag 168032270
 atcacctcag ttccagttct ggctgtg cca cttaaaggct gcatgacctt 168032220
 gggtcagtc ctttctgagc ctcaattccc tcaactgaa aacggaggca 168032170
 atactatacc ttctgtatc agttatctag tgctgcataa caacttagcc 168032120
 ccaaaccata gcagttcaaa accacaaaaa acattttttt tagcctacat 168032070
 tgttctgtg ggttgggaat tcagaaagag cgtagctggg atctctcagg 168032020
 gttgcattct acacagccat ggctgcagtt ctctgtaggc taacccaagg 168031970
 cagcaggata tgcttccaat gtctgcact cccatggcgc tgggtgttgg 168031920
 cgggaggtcc cagttctgcc ctgcatgagt cactacacag gctctttgag 168031870
 ggtccttgcg ccagggcagc tggcatgtcc cagagtgaat ggtccagaag 168031820
 agagtaagcc acttgtcttg tatgacctac aattggaagt cactcacacc 168031770
 atcatttcca ccacattgca ttgggtacat cagtcaggta cattcagtga 168031720
 gggaggggac cacataaagg gcatcaatac cagaagggtg tagtcaactg 168031670
 gggcaatctt ggaggctagc tactgtgctt ctttataggg ttgttgggag 168031620
 gagtacgtga gatgttgaga tgtaaaagtca gaagcaacat tgtcacgatg 168031570
 aaggccaac tgctatttag aatctgcatg acctgacta tccctggccaa 168031520
 catggtgaaa ccctgtctct actaaaaata caaaaattag ctgggcatca 1680314 70
 tggcggtcgc ctgtaatccc agctatgctg gaggcgaggc aagagaatca 168031420
 ttgtaaccca ggaggcggag gttacagtca gccaaagtca acctgggtga 168031370
 cagagtgaga gcctgtctca actctgcatg acattgagca gcatacttgt 168031320
 gggtcacttc ctcatctaga tagggccagg agtgggtggct cacacctgga 168031270
 atcctagcat tttgggaggc cgagggtgcaa ggattgcatg agctcaggag 168031220
 cttgaagctg caatgaatgc accactgcac tccagcccag gtgacagaga 168031170
 cagacctgt ctcaaagaaa agacaaaagt gcagataact catactgcca 168031120
 aagttaagat tctaaagcat ggacttttta aagatgaaac aag tgtagaa 168031070
 aatggctctc agtggacctc tgcagggaga acacatgagc agtctggatg 168031020
 gttcttttct cctcttttcc agctgttggc ccttgagatg ccatgccttc 168030970
 aaaactaatg aaaccctagc cactcagagt ggccccctga cattgaccag 168030920

FIG. 1N9

caccactgac atcacctggg agtcacc tgg ggctcccagg cccacccca 168030870
gcccttttga gtcagaacct gcatttttga atgattcgca tatgtatcca 168030820
agctgatggc attgtctcac agcctccatc caaccctctt gcccttactg 168030770
ggtcagcaga agccagtctt ttgggtctgac ctaaacaag gaaattatat 168030720
taatattaaa atgggtgtct taccttgggg gatctttctc ctgcatggac 168030670
actgagaagt cttgtccct gccaccagga tcccaggcag tccacccgt 168030620
gccttgagga cttttccaca ttttatacct acacgaaata ctattcttaa 168030570
ccaaaactca tttttaaaat gttattaaat agcttattct gaaataattt 168030520
cagacttaaca ga aaaactgt caggacagta taaacagctt aatcccttca 168030470
ccccagtcac tagcatgttg ccccatctgc actccctgtc tctcccatg 168030420
ttatacacat gcacatgcac acattgtcat taacctctt ctaatcctt 168030370
taacaatctc ataattttta agacttttaa caacacctga agctttaaaa 168030320
tgcaataaaa cctttctcct tcacaatcgc ctctggtgcc cgtaacagcc 168030270
tgggagttgc tgggaaggaca ggtaaatgtg ttaccacttt gcagacacgg 168030220
aaactgtgac ttgcttgtca agggctcaagg gtcattggctc ccttccctcaa 168030170
gtgccttgct gcagacattc tcccactgta gtgaggacag tagagggggtg 168030120
gaaatgaaaa gctgggtcag ggtccagagt gtttaagcag atacaggggtg 168030070
gccctttccc agcctgcagt tatctctagg ccttctggaa aagctcatcg 168030020
caacacctgc ttctatttca gatatcaact ccagctcatt tcccagagaa 168029970
gcctccctgg cccctgggcc aggtcaaatg ccttttgaat acaaatgtct 168029920
tatagcatat aaaaacatat actgtatgtt cttgtatgaa catcttccct 168029870
ttctttatag catctacctc agtttcttta ttaaataat tcaactaaat 168029820
agtatctaga ctctaggcca agagagacag actattggga gtggtagtga 168029770
ctggggcaaa ctggagattg cctgccccat ctaaagcact cag cttcagc 168029720
catcactgca gtgcagggtt gcaggctcag ctctgccaga cctccttgtt 168029670
ttcaagggaag gcagaaatcc agattttcag gtgaaatctc ctgctttttg 168029620
aatgttgaca ttttaattaat ttttaggcac atgtagggtg atccaaattg 168029570
gtctggggtc aggatttggc ccacagtcta tcagtt tgcg tcacttagtt 168029520
ttagttttga ctttaggttt cttgaaggaa gggaccaagc ctgctttttg 168029470
catcattata tcctcacggc ttaggtgtaa gcctgtcaga gagcctggta 168029420
caggaaaggc acctgtttgt aaaatagatg ggtggatgga ggggagggtg 168029370
ggcagatgga tgagtgaata aattcttac a gtcttcagag cacaagtatt 168029320
tcaaagcagc ctacctggga actgtcatg gtccgtctgg ccacctagac 168029270
caccaatgcc ctgacttcta tgccctctgc agAGAATCCG TGCCTGGGAC 168029220
AAGTAGTCCG AGAGGTGATC CGCCGCCAGA AAGGTATGTC ATCATGTGCC 168029170
ACAGCCTCCA AGGTGCCAT C ATGGAATGT CGTGGGGGCT GTGGGCCCCA 168029120
GTGCTGCCAG CCCACCCGCA GCAAGCGGCG GAAATACGTC TTCCAGTGCA 168029070
CGGACGGCTC CTCGTTTGTA GAAGAGGTGG AGAGACACTT AGAGTGCGGC 168029020
TGCCTCGCGT GTTCCTAAGC CCCTGCCCGC CTGCCTGCCA CCTCTCGGAC 168028970
TCCAGCTTGA TGGG GTTGGG ACAGCCATGT GGGACCCCTT GGTGATTCAG 168028920
CATGAAGGAA ATGAAGCTGG AGAGGAAGGT AAAGAAGAAG AGAATATTAA 168028870
GTATATTGTA AAATAACAA AAAATAGAAC TTATTTTAT TATGGAAAg 168028820
gactattttc atcttttatt atataaatat attacacat ctgcgtatat 168028770
gtaccatata gtgagttatt tttaccaagt tttgtgttgt gtatttgt

FIG. 109

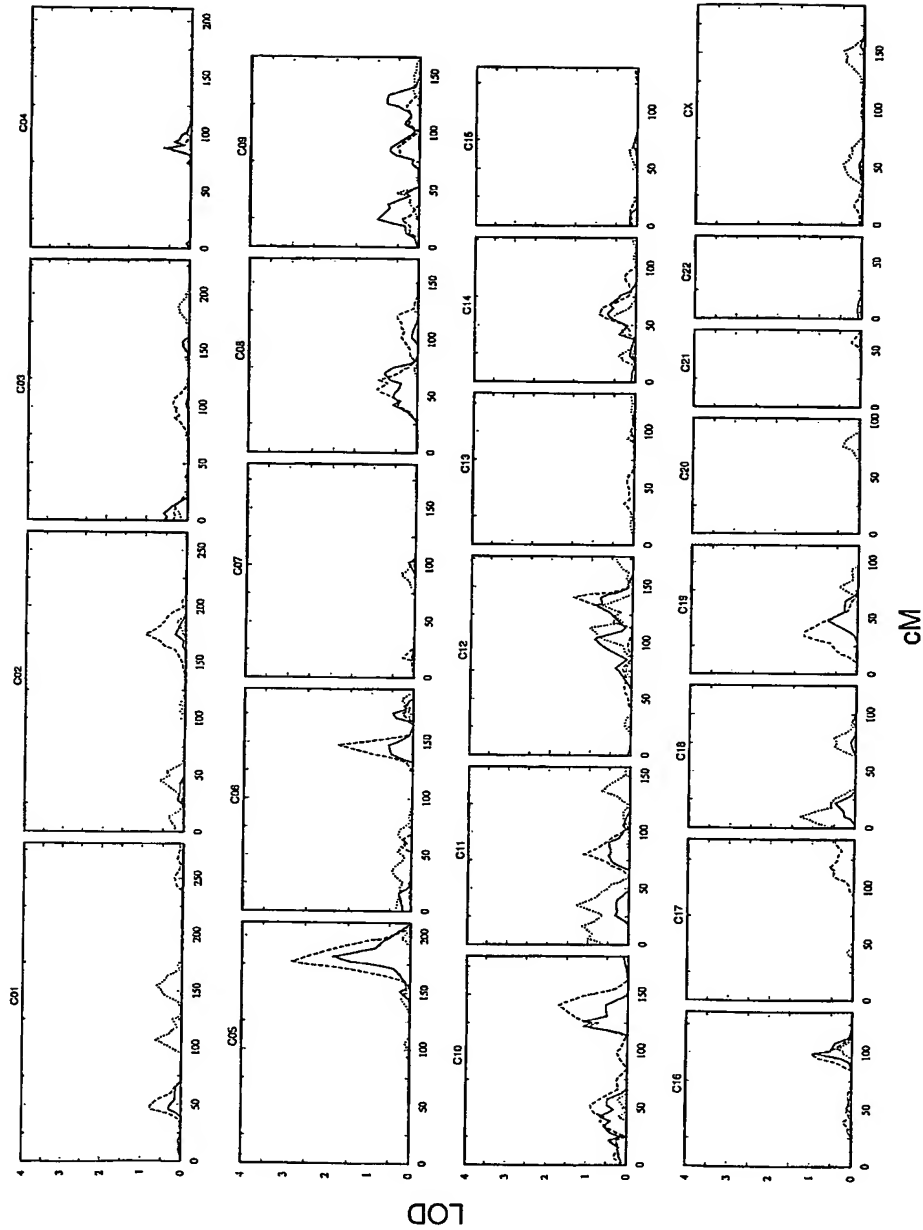


FIG. 2

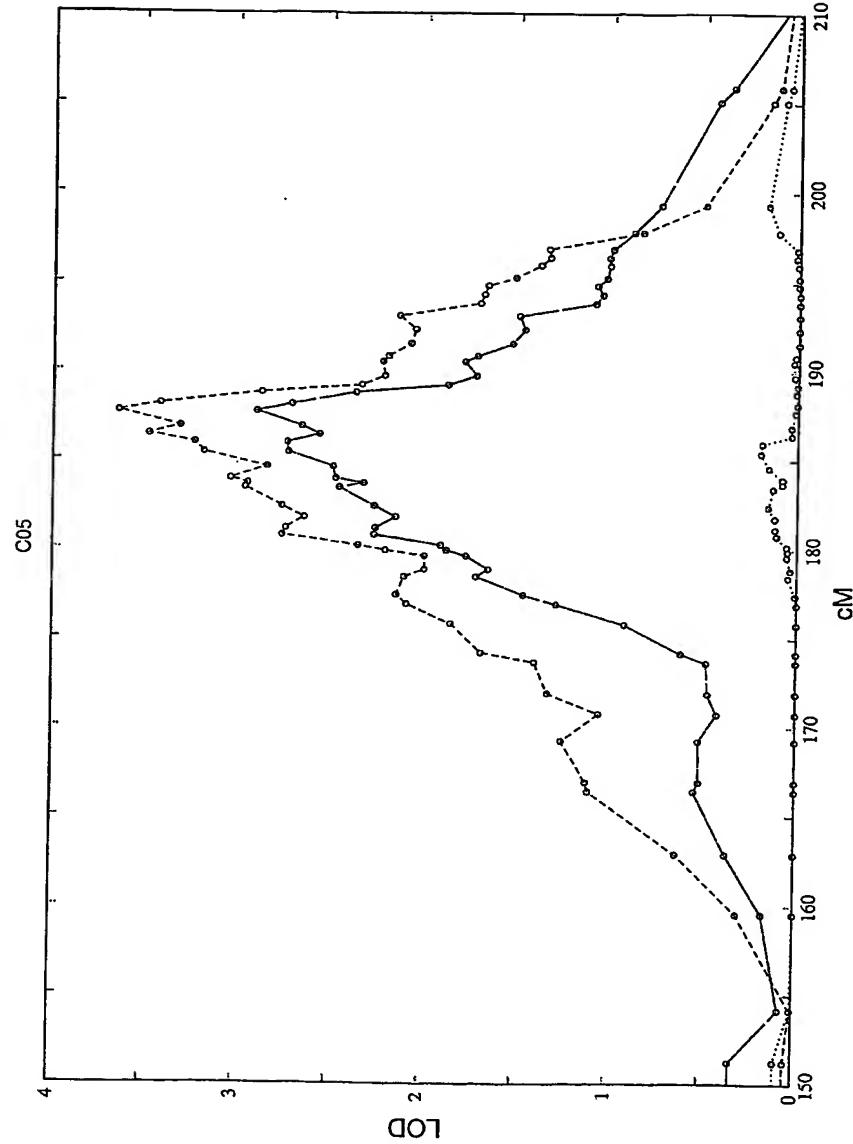


FIG. 3

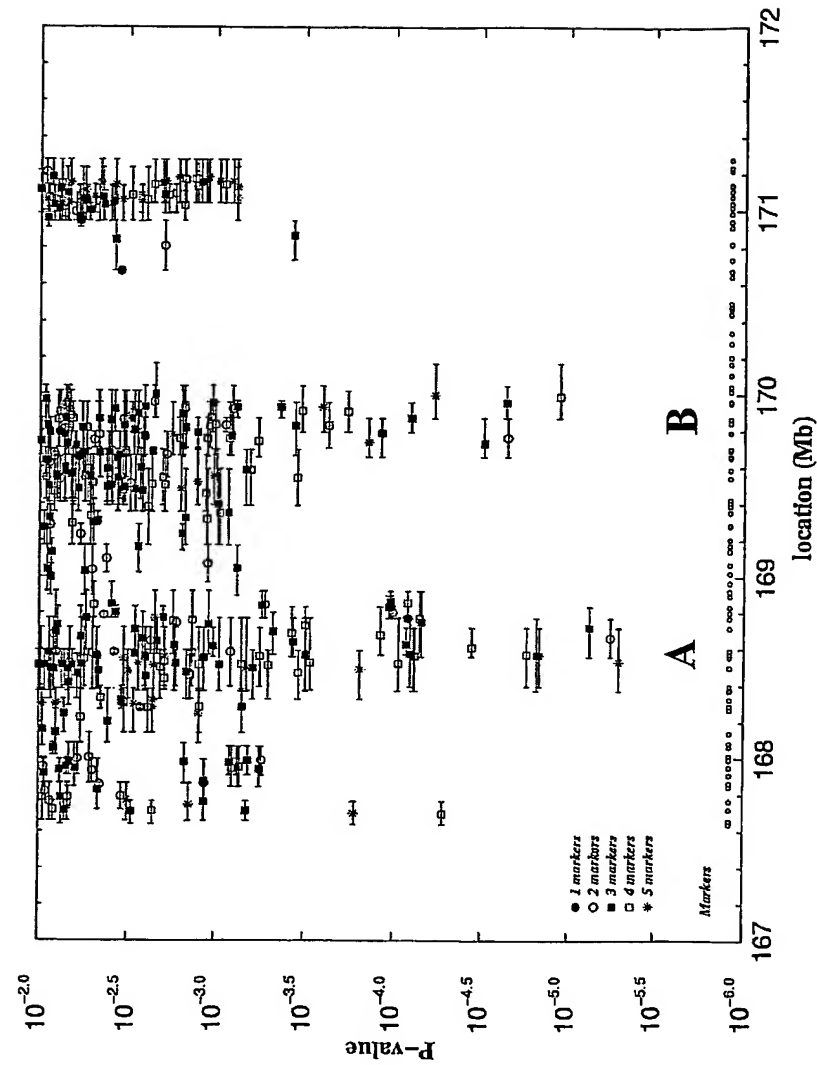


FIG. 4

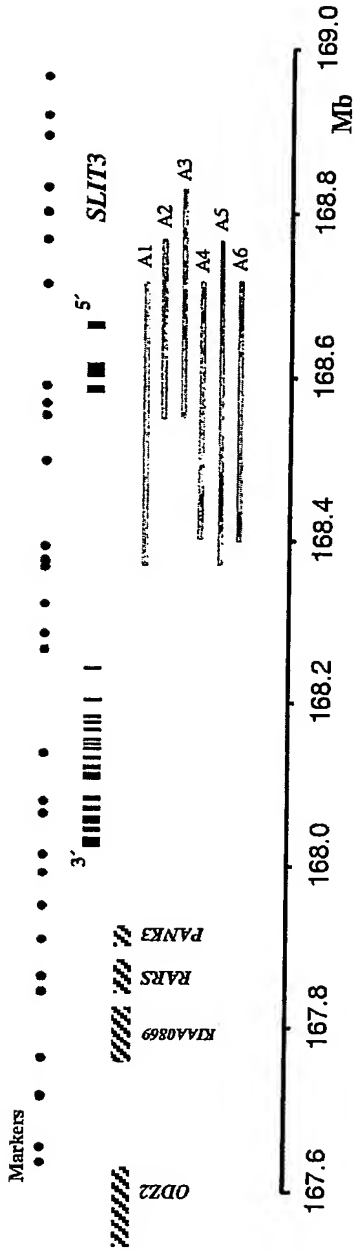


FIG. 5

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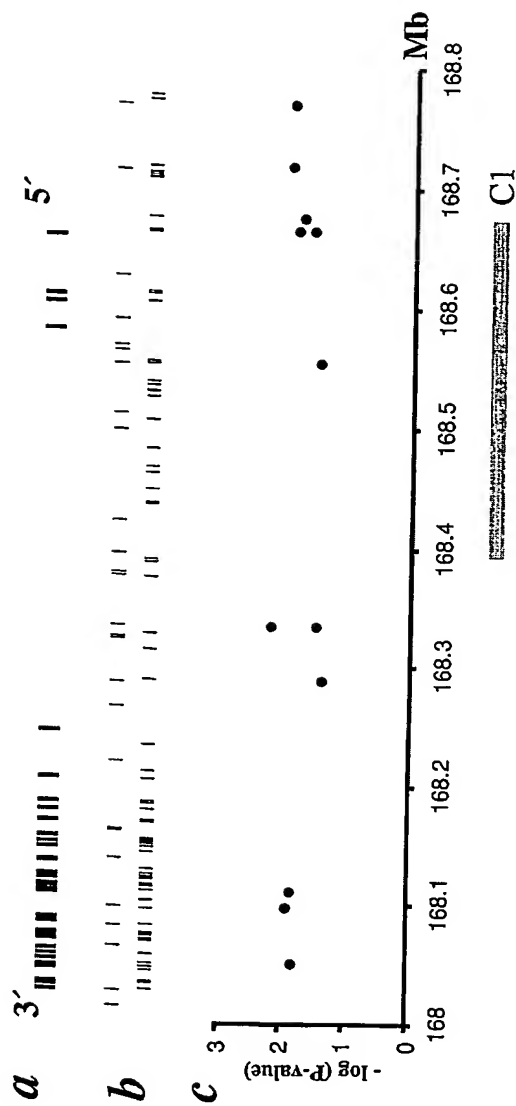


FIG. 6

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DG5S5: 167638990 - 167639163

TCCTCAGAACAGGTGCAACACAGTGTGTTTTGCTGGGGAAAAGGGATGTC
AAGCAATCTATGACGGGGGTGCAGGGAGTCTGGGGAGAAACACAAGGAAG
TGTGTGTGTGTGTGTGTGTGTGTGTGTGAATGTGTGTGTGTGTGAGAG
AGAGAGCTGGTGTGTTGTGTTCCA

D5S671: 167657904 - 167658237

GGAATGTGCCAAGACATTCTTTAGGGTTGGTAACCAGAGACGCTATTTTG
TCCTTGGTGGCTAAGAAATCACTTTTCTGACTGAAGGNCCATTTGACTTA
CTTCTTTTAAATTCAGGGGAATGGGTGGGCATCTCCATGATTCAGGTAAG
GAAAAATCCAAGGNAATAAACACACACACACACACACACACACACACAC
ACACACGGAGTAGAAATTTTTAGTGCAATTTTTGTCTCACAGCATTAAAT
TAATTGCAGGGATATAACTACCTTGGCAGAATTTTTCTCCCCAACCCAC
CACCCCCCGGAATAAGTTTGGCTCTTTTCAGCT

DG5S870: 167719773 - 167719939

TGCCCCACTCATAAGATGCTGAGGTTACAACCTGTTAATAAGATATTAAGAT
ACTGTCTTTTTCTTCCTCTTTCTCTTACACACACACACACACACACAC
ACACACACTTTTTGGGCCAACTGGAAATTCATACATTCTCCCCAGCACTG
GAGCTCAAAGCGTCTG

DG5S85: 167721558 - 167721918

TTGTTGTTGTTGGTGGTGGTGGGGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTTTCGAGACAGACTCTCACTCTGTCACCCAGGCTGGAGTGC
AGTGGCACGATCTGGGTTCACTGCAACCTCTACTTCCTCAGCTCCAAGGA
TCCTCTCACCTCCACCTCCCAAGTAGCTGGGACTACAGGTACGCGCCACC
ATGTCTGGCTAATTTTTTTGTATTGGAGAGACAGGGTTCACCATGTTGC
CCGGGCTAGTGTGCACTCCTGAGCTCAGGTGATCCACCCACCTCAACGT
CCCCAAGTGCTGGGATTAGAGGCGTGAGCCACCACGTCTGGCCTATACAC
TATAGAGTTT

DG5S90: 167766290 - 167766502

TCTGGACAGGACCAGGAGTTGGCTGCTGTCAGCCTTTGCCCCACCTCTCT
GTGGCTACTGGGTATGTGAATCTCTCAAGGCCTGAAGAGAGGACAGCTGA
GGAATTTGGAAATCCTAAAACACATGCATACACACACACACACACACACA
CACACACACACACACACTTTCTTTCCCTTAAAAAAAAAAAAAGATTCAT
TCACCGTGTGCA

DG5S874: 167846718 - 167847065

CTGTCTACACTACCCACCCATTAGTCACTTATTAGCCCTCTGAATTACTG
GATTGAAAAAACATAGTATATATATAGGGCTTGGTACTATTACGGTTTC
AGGCATCCACTGAGGGGTGTTGCAATGTATCTCCACGGATAAGGAAGGA

FIG. 7A

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CTGGTATATTAACACTTTTATTTGATTTACAAAATAAAGGATAGTTTATA
TAGTTCTGGGTAAAATTAATTAATTAATTTAAAAGGAAAAAAGATAAAGG
CAAACTTTAAGCTTGTTAAAAATTAAGTAAAATAATTTGGATTATTTAAT
TGGACAAAGAGGACTGGCTTTGCCAATGAAACAATATGGCCGACATG

DG5S88: 167864864 - 167865059

GGACCTTCTTTCTGCCCTAAAACCGCAATATCATTATAATAACAAATATA
TATATATATATATATATATTTTTTTTTTTTAAAACAATCTTGCTATGTTG
CCTAGGCTGGTGTGGAACCTCCTGGCCTCAAGTGATCCTCCCACCTCGGCC
TCCCAGAGTGCTGGGATTATAGACATGAACTACCATAACCCAGCCA

DG5S7: 167910343 - 167910651

CACAGCCATCAAGTTTCCAACCTTACTGCCTCACATATTAAGATGATTTTT
TTAAACAAACTTAACAGGCGATGGATACTCCATTCTCCATGATGTGCTTA
ATTACATGCATGCTTGTATCAAAACATCTCACATACTCCATAAAGCCTG
TAATCCCAACACTTTGGGATGCCAAGGTGGGTGGATCACTTGAGCCCAGG
AGTTTGAGAACAGCCTGGACAACATGGCGAAACCCATTTACACACACAC
ACACACACACACACACACACCACACAAACAAAATGAAACAAACACCTA
ACCAACAA

DG5S6: 167952553 - 167952858

TCCTAACGGCTGCTACCACTAAAGATCTTAGCATGGTGTGTGTGTGCGTG
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGGTGGGGCTATTCAGTAAG
GCTAGAAGTAAAAAGCTAGTAGAAAGCCCATGGTGATGGAGAATGGAGG
AAGACTGATTAGGGAGCTCCTCAGCAGTATAAGGAAGGACTAAGAGCACA
TAAGGACAGGATCATAGAATTCCGCATCTCAGGATTTTTGAGGCTGCCAC
TGCCTTAGCTGTGAGGCCAGTGCATATAAGAATAGTTTGCACAGTTCTGC
TGTGG

DG5S87: 167992779 - 167993149

CCTCTGGGATTAGCCTCTCAGGGTACAGATATAACGATGATTGAGTTGGC
TTATGTATGTGTGTGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGAGAGAGAG
AGAGAGAGAGAGAGAGAGAGAGTACAGAGAGAGAATGAGAGAGAAGTGGAA
GTTGTCAACAAGAAGAGTCAAACCTCTGTAAAATATTTGAAGAGATTTATT
CTGAGCCAAATAGGAGTGCCACAGCCCCGGGAGATCCTAAGAACATGTGC
CCAGAGTAGTCAAGCTATAGTTTGGTTTTATACATTTTAGGGAGACATAA
GACATCAGTCAATACATGTAAGATGCACATTGATACACTGGTTTAGTAGG
GAAAGGTGGGACAACCTCGAA

DG5S91: 168014827 - 168015078

GGTGCCAATTAAATCCAACAAGGTAGCTGAGTGTGGTGGTGCACGCCTGT
AGTCCTAGCTATGCAGGAGGCTGAGGTGGGAGGATCACTTGAGCCTGGGA

FIG. 7B

DG5S97: 168286866 - 168287096
CTCTTCCCATGTCCTGCTTCTCTCCTTCCTGCGGGTTGGGACCCAGTACC
CTCCATCTCTCTCACTCCTCCCCTCTCAAACCCTTCTTTTAGGAAAGGAG
TCCAAATCGACCACTTACACCTCAGTTCAATGCAAGCCAGTATAATTAAT
AAGGAACATTTAAGGGTGTGTAAGGGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTAGCTCACTCTGCCTCTGCC

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D5S2052: 168324273 - 168324633

GATCACCAGGGAATCTAGATGGAATCCATAGTNCTNCCCTGCAAGAATGC
TGCAATTCTGTACCGTGGAGGNGCCAACAGAATCACCAGGCTCTGTGACT
CAGTCACAACACCCTGACCTGCCCTGTCCATTCTCCATATCATACCCAG
AGTGGTCTTTTCAAAGCACAGCTTTGACCAATTCTCTGTCTTTCACACAT
ACACACACACACACACACACACACATGCGTGCATGCATGCCTGAAATA
GTATAGTATTGCTCTTAAGATAAACATTAANGTTCCTACCATGGTACAGA
AAATATATGTNGTTAGGCCCCGTGGCTCTTTCTTTTCCAGACTCCTCTTA
CCCTTTTGTG

DG5S879: 168369069 - 168369202

AAATCTTCCATTGCAGACCAATTAATAATTTAAAGATTTTCTCTCTCTTTC
CCCCTCTTCTCTCTCTCTCTCTCTCTCTCTCACACACACACACACA
CACACACAACTCTCCAAGCACAAAGAGCTGA

DG5S880: CHR5: 168376530 - 168376775

TGAGTGGATGAGGGAGAAGGATAAAAGTCATAAAATGCCTCGCAAAAACCT
TTGAGGTCTGCCTGCCTGGTATTACAGAGAAGCTTGACAAATACAGAATG
TTTTGTGGGAAGGAAGGCAGGCAGGCAGGCAGGCAGGCAGGCAGGTGGT
TATGTTTTCACTCTTGATATCTCAAAGCTTTATGACACACTCATGGAGTG
AACATAATCTTTGTGGCATGATACAAAGGGACTGAATCACTCAAG

D5S400: 168378412 - 168378696

AGCTATGATCATGCCACTGCACTCCAGCCTGGCTGATAGAATGAGATTCT
GACTCAGAAAAATATAAACACACACACACACACACACACACACACACA
CACACACACACACACAACTTTCTGTCTGCCCCCTTGCTCTTCTGTCCCA
TCTCTGCCTTTCTTCTTTCTCTTTGTCAAATCTCCTTCGTCTGCCTC
ACAAAGGCCAGTGAGCCCCAGCCGACAGCCAGGGAAGCCAGCAAATTAGG
AATTTTCTTCACAAAGTTTTGAGTAGCT

DG5S881: 168395631 - 168395815

TCTCCCATCTCCTCCCTAGCTATCCCCTGCCTGGTAATCACTGTTTTGTT
CTCTATTTCTGTACAGTTGGGTTTTTGTGTTGTTGTTGTTTTAGATTCT
CACATATACTTGAAACAATGCAATCTTTTTCTTTCTTTGTCTGGTTTATT
TCACTTAACACAGTGCACTCCAGGCTCGTCTATG

>D5S2043: 168499686 - 168499956

CCAGAAAGCTTCACCAAGGGGCGAGCATGATTATGCATGAGCTTCTTAAA
TCTGGACTTCCCGACAGCTTCTCATGACAGGTCTTCTGTGGAAGACTCCT
TAGATTACAGACCATCAGGCCTTTNAAAAGCACAGGAACCTACTTTACCTC
GCCCAACTCTACGGATGGGATAGGNACTTACAAGGACATTTCTTCATTGG
ATTCCAATGTTCAATTCTCCCCTTCTCTCTCAATTAATCTCCCCCTCTT

FIG. 7D

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CTCTTTCTATCTACACACACACACACACACACACAGAGAGAGAGAG
AGAGAGAGAGAGAGAGAGANAGAAACAGCTTCTTCACAGCGGGAAGCAGG
GGAAGGGTATCTATTTCCGGCAAGATC

>DG5S1058: 168554788 - 168555167

AAAGTCAGCTAGGGCGACTGAGCCAGAGAGATGGGGCACACAGCAAGAGG
AGACCTGACAAAGTGCAGGTGTGTCCTAGAGAAGGCAAGCGAGACCACTG
CATGATTGGAATACCAGCCAACCCCTGCTGTTCTTGTTCCAGCAAAGTG
CCCTTTTAAAATAAATTTATGTATATAGTCTCTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTATAGACATATAGAAATATATATTCCTAATTCAGAA
CTCATTCGTAAGTGCACACACTGACATGTGTTTCATGTTTCCCAATTTAT
CCCAGAGCCTATATGCAGTGTGTTGGCTGCACAAGTAGGCATTAAATGCAA
CCACTGGGAATGAGAATGGTGGCCACAAC

>D5S2075: 168569742 - 168570114

AGCTTTGAAATCCCATCCAAACTNATTGGCGTTTCAAACCTGAATCCCAGA
TGTTCACTTACTGAGAAATAAATGAATGGCCCAATTCGTGGACTGANGCA
GGGNCCCTCACAAATAGATTCCAGGTGTGTTGGCCTCTGGACCACTATCT
TTCTCTGTTTTACATACACATACATACACACACACACACACACACACA
CACACACACACACACACGGCACCAAGTCCATCCTGAAAAGAATTCAAC
GTCATCTCCAAGTTAGAGCCAGTNTAGGATGAACAGAGGTAGTTACCTAA
CACAAATAACATATTTTCAATTGTGGATGAAGGCAAAGGGCTCCACATTC
ACACTCTTGTGCCTTCAATA

>DG5S883: 168592111 - 168592265

GGCATGGGATGTTTGACCTAAGAGATGGACTAAAGCCAATGAGTAAAAAAT
GTAAAGCGTACTTAGTCAAATAAATTCTTCTCTCTCTCTCTCTCTCTC
TCTCTCCTTATTCATCACTCTTGGGCCGTGATGATGATGAGGGAGAGGAG
CAGT

>DG5S38: 168715977 - 168716367

TATTTGCCTGCCTGGGTTAGATGATTCTCCAGGCTTCTACACAATTTTAT
GTTTATATGAAAATAGCCACAAAGGGAAAAGAGGACAATAAAACAAGAGA
TATGAATAATAATGTATTGTATACTTGAAATTTGCTAAAAGAGTAGATCT
CAAGTGTCTACATACACACACACACACACACACACACACAAAGGTAATG
AATGAGATGATAGGTGTTAATTAACCTTGATTGTGGTAATCACTTCACAA
GTATACATATAAAAACATCATGTTTACAACCTACATTTATACAATTCCT
CAATTATATATCAATAAACCTGGAAAAATAAAGATGTATAAAAAAAGATT
ACAAATAAGATTTTTAAAAAAGGATTGTGAGGAAACAAAG

>DG5S37: 168770226 - 168770418

ACCAGCTAACCTGCCATGAGACTGTTGTGTAGCCATCTTCACCTCCTCAT

FIG. 7E

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CTTCAGGGAAGGGGATGAAAATATCTGTGCACTGCAAATGTAACTATAT
ATACACACACACACACACACACACACGTACAGTAGGCCCTCCATAACC
TGAGGTTCCACATCTGCATATTTTACCAACTCTGGTCCCTGC

DG5S886: 168803195 - 168803445
TTGTTCTGAATGGGAGGAGGACTGGTGAGTGAGGGGGAAAGAATGGAGA
CAGGACTGAGAAGAACCAGAAATTTAAATAATAGTAGTAATAGCCTAACA
TGTACACGTATATGAGATCTATCTATCTATCTATCTATCTATCTATCTAT
CTATCTATCTATCATCTATATATCTATCATCCATCATGTATCTATCTATT
TGCATATATAAGCTATAATATCTGGCTCTGTTCTAATTGTTT

DG5S101: 168833451 - 168833700
CCAGGCTTGGATGAGAGAATAATCTTAAGGAAGTCAGCATATGTTCTAGA
AACATTGAGAAGACAAAAGAGTCTGTTATGAAAGAACAAAGTATTTGTAA
TAATAAATTGAATGTTACATGGACACACCCAGACATACACACACAGACAC
ACACACACACAGTTTTTCTTCTCTCTCTCTCTCTCCCCACTCCCCTCTCT
CATACTTTGCAAACAAGCTCCTCAGCAGCTGGTAAGCTGTTCCCTGTCC

DG5S102: 168895047 - 168895352
TCCTGACTGCTCAAAGCTCAAGGTGTTGCCTTTTTCAAATGGGATGCAAT
AGCCTACTCATTTTCCAAGATTAAAGCTAGAGAGAAGAATGAATGAATGA
ATAAATAAATAAATAAATAAATAAATAAATAAATAAATGAGCAAAGTTAA
TATTAGCTGGAAAAAATAGGGTACAGGTGGAAGGAATGAACCCATATTGA
GAGTCCACTATGTGTCAAATTCCTTGCAATGGAATCTCTAAGGTCTGTCTA
GCTTAAAAGCAATGCCAGCCTTGCTATCTGTACTTGATGAGGAGATGGAT
CGGAA

DG5S39: 168920224 - 168920577
CCAAACTGCAAACCCAACTTCTACAATGAATTCATGTGCAACTTATTCT
AAAAGATCTATACACACACACACACACACACACACACACACACACACA
CACTTCCTGTCCTATTGCTCTTCACTACTTCCTTCATCTCTGTGCTACAA
TCTGGGTTCATTTTTCTTCCCCTTGAGTAATTTATTATGTTTTTTACAGT
GAGTCTGTTGCTCAAAAATTCTTTTAGTATTTATTTGTATAAAAAGTCTT
AATTTTGTCTTCATATAAAATTTTGTGACACTCTATTATAAATTGACT
GTTATTCTCTTCCATGTTTTCCGGACATAGTTCCATTGTCTTCTGACTT
CCA

D5S1456: 168968063 - 168968256
TTCNACCTTATGGGTATATCGAATTGTAACCCCGTTGTAGGTCAAGGAGC
ATCTNCATATATACATACATAGATGATAGATAGATAGATAGATAGATAGA
TAGATAGATAGATAGATAGATTTAATTCTAAANTTTCAAATACTCTTTC
ATTTAAATGATTATAGTTTTACAACAATTCATATATNTATAGGTAGGA

FIG. 7F

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GAATTAGGGTTTTCCAGAGAAATAGANNCAATAGGCTGTGTGTGTATATA
ANGATTTANTTTNAAGA

DG5S106: 169021310 - 169021609

GTTGGGCATGATGGTGTGTACCTATAGTCCTAGCTACCTGGGAGGCTGAG
GCAGGAGGATCCCTTGAGCCCAGGAGTTTAAGACTAACAAGACTCCATCT
CTGAAAAATAAGGCAAAAAAGTATGAAGAATAAAATAACAATCACTTAC
ATTCCAACCACCTATAATTAATCATTGCCAACACCTGAGGATATTTGCTT
CCAATCTACAAGACTGCATTATTATTATTATTATTATTATTATTATTATT
ATTATTATTATTATTATTATTGAGATGGGGGTTTCTCTTTGTTGCCAG

DG5S40: 169067041 - 169067434

GCAGACAGGGTTCAAATTCCAGCCTCCCCTCATATTAGCTGTGTGATCTT
AGGCAAGTTTATTCATGTGTAAAAAGAAATAATAACCTCTTCTCGTGGGG
TTGCAGGTAAACAAAAGAGTAGGTATTAAACAACATAAAAGAGTATGAT
TGGATTGTTTATAACACAAAGGATAAATGCTTGAGGACATGGATCCCCAT
CTCCATGATGTGATTTTTATGCATTGTATGCCTCTATCAAAACATCTCA
TTACTCCATATATATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTATGTGTATGCACACACTATGTGCCACAAAAATTAAAA
ATTTTAAATTAAAAAATTTTAAAAATAAACATGCTGCTGGGC

D5S504: 169142805 - 169143006

AGCTGCCAGCACACAAGGCCAGAGGTACTTTATTGGATGCCAAATTCTT
TTAACACACCATGAGAAAAGAAGTTGACAACCTTCCCATGCATTTTGGAA
GGTGTGTTAGAACGATTCAACACACACACACACACACACACACACACACA
CACACACACACACATTTATTGGGTTGGGGGAGCCTTAAACTTACAAATC
T

D5S1961: 169173385 - 169173631

AATTTCTTACCCTTTATCCCCGTCTTCTACTCCCATTCCACATGCCCCC
ACCCCCCATGAATGATTTGTCTAATGCGTTGAATATGCACGTGTGGTTTT
GGGTGCATGTATGTTTACACACACACACACAGACTCTCTCTCTCTCTC
TCACACACACACACACACACACACACACACACACTCATGCCTCTCCTT
TGAAGAGGATCAGATATGGACAGCAAAGGGCATTAGCATCTTAGCT

DG5S108: 169203019 - 169203370

GCTCCAAAGTTCCTGATTCCAAAGCCTAAGTTAAGCCATCTTAACTTATA
TTTCAGGTGACTAGTGGAATTTTTATGCCAGTGTAGGTGGTAATGACG
ATGGAGATATGGCGATGATGATGATGATGATGATGATGATGATGATGATG
ATGGCAGTAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
TGACCACTGTTGTCTGTGTCCTTTGTACAATTGTTTCAGATGCAGTGTCTT
GGTTGTCACATAGATGTCTCTGACTGTTTACAGGCCTTCACCTACCACC

FIG. 7G

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ATATCCAGGAGATCATGGTCCAGCTGCTGCGGACAGTGAACCGGACAGTC
A

DG5S41: 169277936 - 169278300

TTAACCCACTGCTCCCATTTTGTCTGGTGGAAACTGAAAACCAAAGAGAT
TAAGTCATTTACCCAAGGTCATGTAACATAATATATTGAATCTCAGATGTT
TTAATGATTTTGACTCATTTCCAATTTGCCTGGCTATATAGAGAAAATAT
TTGAGGAATTGACAGGGAACACACACACACACACACACACACACACACAC
ACACACACACACAGAGGGAGGGAGGGGAGAGAGAGAGACAGAGACAGACA
GAGACTGAAACAGATTATTTCTCCACTGATGTTTCATTATTTAGATCTATTT
TCAACATTTAAAGGCAATTGTCAGCATAGTCAATTCAGCCATTTTAAACC
ATCAAGGGCCAATG

DG5S42: 169285983 - 169286144

GCAACCTATTTGTTAGCAGCACATGCGTGCGTGTGCATGCACGTGGGCAC
ACACACACACACACACACACACACACTCTTTCAGGGGAATTTTGAGCCA
GAAATTTATCTGTAGGCCCATATTCATTCTTTTGCACATTTCTATTGT
GACCTTGGGCA

DG5S10: 169356049 - 169356318

CAATTCCACACAGCTGGAGAGTAACAAAGCCAGAAATCACATCCATTTGT
GTGTGTGTGTGTGTGTGTGTGTGCCAAATCCTGTGATTCCAGTGCCAGG
ATACACTGTCTTCCGTGTTCAACAGTCATGAAAGTATTTTAATGAACACC
TGGCCCTGCAGTGCCTGATGTAGCAAATGCTGCAGATACTCCACCCACCG
ACTCTTGGACCACCCAAAATCCACTGGCAGCTTCAGTGAGGCTTTCCTAC
TTCTTTCTTTCCCTGGGCT

DG5S110: 169391090 - 169391341

CACTGGACTTGGAGTCAGGACATCATTTTAACAGCTTTATCGAGATGTAA
TTTACATGCCATACAATTTACCCAAAGTGTACAATCATTGACTCTTAGTA
TGTTACAGAGCTATGTAACCATCACCACAATCAATTTTACAACATTTTC
ATTACTCCTAAAAAGCAAACCTGCACCCCTTAGCCACTGCTCTGCCAACA
CACACACACACACACACACACACGCGTGCGCACACACACCCAAACACT
C

DG5S11: 169409260 - 169409401

CGCGTGTACCTCCACATAGATGTTTGCCAATGCCTATGCCCCAAGACACAC
ACACATACACACACACACACACACAGGATACATTCAAGCACACACTAA
TGTATGTGCACTTGCTGCACAGAGTCCACATCACACAGGC

FIG. 7H

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D5S1973: 169424532 - 169424861

AGCTTCTAGTCTGCTATGTTGCTAATTGTCTTCTTGGTCATCTTTTAAAA
CCATTTCTGTGAAATTATAGCCTCCTTACTCCCTTACCCTGAGTCTGGAT
GTTTCTGAAGATGACTGATCTCTACAGTGAGAAGGCCCTGGGAATTGACT
GACTCACTCTCTGTCTCTCTCTCTCTCTCTCTCACACACACACACACA
CACACACACACACTCATATACATACACACATAGATACACATATACATGCA
TCCACACATGCACACCCTGGGCACACCCACACACCCTACAACCTGCACATG
CATGCACACACATAATGTAACTGAAGG

D5S397: 169542970 - 169543287

AGCTTTTGGCTATGGAACCTTAGGCAAGATGTTTCATAAACCCCTTTAATCT
CTAGTGGCCTTGTTTCATAAAAAGAAAGTGAATCGGATCCCTGCAGGACTGT
TTTTGTATTCAAGTGACAGGTGTGTGTGAAGACACCCAGCATGTTGCCAG
GCACACAGAGATGTCTACCTTGATACTTTTCTCTCCTCCTCCCCGCAAT
ACACACACACACACACACACACACACACACTCACACACTCTTATTTTG
ATCTTGGCCTGAGGCTGACAAGCCCCAGATTAGTGATCAGTGACAATTTC
GGCTTTATCAGCT

DG5S115: 169586308 - 169586550

CGAGGATGCACACCTCATTAATTGAGGAGCTAGGATTTAGATCCAGAGCC
TCATGATTCTAAAGCCTGTTTTTGTGTTGTTGTTGTTGTTGTTGTTT
GGCCACACTAGGTTTCTAGAACTTCCAGTTCCTTCTTAAAAGTCCTTT
TGGGCATTCCGGCCTAAATCCCAAACTGTGGTCTGGGTACAAGAGAGAA
TTAGGCCAGTGAGAAAAATTTAAACCACCCTGCCCTCTAAAT

DG5S888: 169653226 - 169653848

CTTGATGTCTTCTTTTACCATCCCCCTGGCACCCGCCTATACATTTATTAC
TTGAAACAGACTGACCTTTATTTGGTTAGGCCACTGTGGTCAGGTTTCTG
CAACATGGGGTCACATGCCTTCCCAACTGACACAAGTCTCAAGCTCCTTT
TCTCTTCTTTTATAACTTCTAGAAGCATAGCTTCTACCAGATAAGGATC
TAACCTTTTCAAGTGGAACAAATGGCAAAGAAGTAAAGAAAGAAGAG
AGAGAAAGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA
AGAAAGAAAGAAAGAAAGAAAGAGAGAAAGAAAGAGAGAAAGAAAGAGAG
AAAGAAAGAGAGATGGAGAGAGGGAAGGAAGGAAGAAAGAAAGAGAGGG
AGAAGAAAGAAGACAGGGAAGGAAAGGGAAGGGAAGAAAGAGGGAAGGGGAG
AGGGGAGGACAAGGGAAGGGGAGAGGGGAGGACAAGGGAAGGGAGGAAGG
AAGAAAGGAAGGAAAGAAAGGCAGGAAGGAAGGAAGGAAGGAAGGAAGAA
GGAAGGAAGGAAGGAAGGAAAAATACTAGGGCCTTTCACTTTTGCCTTC
AATAGCAGAGTGGCCCTGGATAT

DG5S44: 169661202 - 169661574

TATTGGCAGAGGGTGAGTCCAGTGTATAAAAGCAACTATATTTGTGCAAT
AAGGCAACCTCTAAACACAAGTTACTACTTCATCTAATGCCACACACACA

FIG. 7I

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CACACACACACACACACACACACACGAGTCATCTGTTCCAAGGCTGTTGC
CTTTACTAAGTGATGCTATGTTGGTCCTTGAGGTGGTGCCTTCCTGAGGG
TTTTCAAGCATAGCTTTGGCCATGCACAGTTTTCTTCTTATACACACTCT
GAGGAGCCCCGCCGTACGGTAATGCACCTGCCTCACAAGCTGGTGGGCA
GCTTAAATGAAATACACATTTTGCTCCAGGCCAGCACTAGCTCATCAAT
GTGAGCTGGTGTAGCCTCACC

DG5S45: 169693772 - 169693912

CAGTAGCCAGGAAGCTGAGGAACACACACACACACACACACACACACA
CACACACACAAACACACCCCTTCCTGGCTCCAGTTCGACCAACCCACA
CCCCAACACCGGAAGTAGATTTCTCAATAGGCAGGGCTG

DG5S46: 169702377 - 169702678

TTTGCCAGAATGTCCTCACACCAAATAGTGGACCCCTTCTTTTGCTGATT
TATCTGCTATTGTATAGGTGTATGTGTGTGTGGGTGTGTGTGTGTGTG
TGTGTTAAGGCAGGTGGTAGTATGTGTAGGGTAGGGTTTCCCCAGTCACC
TGGAGCCCTGAGTGCCTGCTTCCCTAAACTAGGCCAGTTTAGCTGACTGG
CTTCCTTTGTGTATTGGTCCATTCTGCATCAAAAGCATCTGAATTTTCAT
TCAATCTCTCTTCTGAATTTTCACTTTTAAAAACCTGACCAGTCCCTTGT
G

DG5S47:169788696 - 169788899

CTCCTCCATGGTAGGGACTGGTTCTCTTAGGCCCTGTATCCTCAGGCCC
AGCATGCTTGGGAAAATGTTTGCTAATGCTTTGTGACTCAAAAGGAATCA
CACACACACACACACACACACAAACACACACACACAGTTTTTAATATT
ATCAGTCATATCAGCCCCCTGAGGCAGCTGCTCTGTTCCAGACAAACCCT
GTT

DG5S119: 169843903 - 169844041

GGGTACAGGAGAGTTGTGGTGGGCATTAGTACTACTCCTGCTGCTGCTGC
TGCTGCTGCTGCTGTGTCCACTGTTAGTGACAGAAGTGGGAAAATATTTA
AGTTGAGTTCACATTAGTGTTCCAGTTTAGCGTGAGC

DG5S953: 169866165 - 169866415

CCATGAGTTCAGGCAGTGGGTAAATAAGATTTCCCTTGAAGTCGAATGA
AATCACAATGCACCACACACAGGGACACACACACACACACACGCACGCAC
GCACATCACACACACACACACACACACACACACACACACACATACA
CACACACAGTCTCCCTGGGGCCAATCTACTGCCCCCTGAACCTCACCCAT
CAGCCAGGTGCCTGGCCCCGGGTCTGTCTCTTAGGGTTACATGCTCCCGG

FIG. 7J

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DG5S955: 169951970 - 169952619

ACTTATGGAACACCTACTCAGTGCCAGGTATTGTTGTAGATGCCAGGAGT
ACAGCAGGGAATAAAACAACATCCCTGTCCTCGACACAAACACACAAGTA
AATAGAGAAGGTCAGAGATAAATGCTGTGCAGGAAAACAAAGCAAAGTGA
GGGATGGAGAGTGCAGGAAGGTTGGGGCACTTTTGTTCAGATGAGTGTCA
GGGAAGCCCCCTTGGAGGAGGCACTGTAAGGGCACAGAATCGAATGAAAG
GAGTATGTGAAGGTGCTTAAATTGTTTCTGTTTGGTTTGGTGTGGTGTGA
TGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG
TGTGGTGTGGTGTGATGTGATGTGGTGTGCGGTGCGGTGCGGTGCGGTGC
GGTGCAGGTGTGGTGTGGTATGGGTTGAGGCTGGCCTTAGGAGCCTGTTGG
CCTTCCAGGCCAGTCCTGAAGCCCAGCCCAGAGCACCAGACTCTGCAGTC
AGTCAGTGGAGGGCCCACATCTCAGCCAATGCATGGCTTTGGGTGGTGAC
TTCATCTCCCCTAGTGTTCCTTTCCCCCTCTGCAAAATGGGAATGGGGAT
GGCTCAGAACTCCAGCGGGAGTTAGGAGGAATAATGTATAGGAAGTATG
AGCAGAGTGCCTGG

DG5S13: 169961410 - 169961530

TGATGTGCTCGTTCCCATAGCCCCGCTGTGTGTGTGTGCGCGTGTGTGTG
TGT
CAGAAGAGGAAGAGAGGGCA

DG5S123: 170015858 - 170015997

TGGTGATCAGCTCAGTGTCTTGGAAAAGAGCAGAAAGTGGTATCACGAA
CATATCTTCTCCTTTGCTTCTTCTCCTCACTCTTCATCATCATCATCAT
CATCATCATCAAATATGGATCTGTGAGGCTACCTCTGGG

DG5S124: 170041996 - 170042336

GGAGGAGAGACCAGCATTACATTCAAGTTATTGTTGTTTTAAATCCATTA
CGCACATACATAGGAGAAAATTTAGCAACAGTCACCCTCTGAACCCAGT
TCCTCAGTTCTCTCCAGAGGCAACTAAAATGCTCAATTATTAGTGTATCC
TTTTGGAAATATTTTATGTATATGACAGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTTTCCCAATATTAATAAATAATATTAACATTGGTAAT
AGTGGTACTAAACAACCTTAGGGTGTTTTTTTTTTTCATTTAATAGTATATT
TTTAGTATCTTTCCAGGAAAAGATACATGGATGTGCCACA

D5S625: 170105556 - 170105787

TCAATAAATGATTCTGGGGATGTGTCTGTCTGTCCATCTGTCTCTCTCNA
GANACANATACACACACACACACACACACACACACACATCCTGT
TAGTTCTGTTTACCTGGAGAACCTTGACTAACATACCCATTAAAACCAAA
ATATGTCCTTCAGGGTGTAAATGTTTGGTTGAAGAAACACAGAAGTTTAA
CAATTGTATCAGGCTGGGCACGGCCTATAATCCCAGCATTTTGGGAGGCC
ACAATGAGNGGATCACTTGAGCCCAGGAGTTCTAGACCAGCCTATGCAAC
ATAGTGAGACAAAAAATGAANAAAATTAGGGGTGTGGTGGAGCGCACCT

FIG. 7K

GTAGTCCTAGCT

DG5S959: 170167429 - 170167616

GAGTTCCTATGGAACAGCATTTATTGAATAATAACATTTTCAGGAAAAAATA
TAAGCTTTACTGTATATTAAAATACATATATACGTTTATATATTATATAT
TATATTATATTATATATTATATATATTATATATATTATAATATTTATATA
TTATATAGATATAAATCAACTACAAGATCCAGTTCAA

DG5S960: 170203240 - 170203459

TTGCCTAAGATCTAGGTGTTCAAAAGAATTTCTCCAATCCACTTCAGCCT
GTTATTATGTATGTATTCTGTTTTAAATGAGAAACAAGAGTCATTTTCTC
CAGAATAATAGAACCATAGTGACACTTGAAGTAAGTCCAGTGGTCCTGAT
ATGATAATAATAATAATAATTATTATTATTATTATTATTTTGAG
ACGAGGTCTGTATCTGTTG

DG5S16: 170280782 - 170281084

ATGGAGAGACACGGAGTTGCTTGAGGGTACAGTGCCTGTAGATACTCAAT
AAATATTTGTTAATTAAGAAAATTTCTGTTATTTGTGTGCTCATACATA
CCATTTCACTCTGGTGAGTATTGTTCTTTCCTAGAGTTTACTTTTAATCT
TAAGTATTTTCCAGGTCTTTGTTGACTTCTGTTTAAACCACAGTACACA
CACACACACACACACACAACTTTTGTGTACTATAATAGCTTCCCCAAA
ATTATAATTTAGTCATTGTGATGCAGATCTTCTTCCAAGGCCTCTACTTT
GG

DG5S962: 170338421 - 170338789

AAACAAACAAACAGAAACACCAAAATGGATTCCAGCATCTTATAAGTGCT
TTCTCTTATGATCGAGAGTAAGACAAGCATGGCTACTCCCTTCTCTTCTA
TTAAATATTGTACTAGGGGTTCTATTGAGATAAATAGGCAAAAAACAAAA
CAAAACAAAACAAAAAGGCATCCAGATTTAAAAAAGGAATCTAGGA
ATAAAGGGATTACATCTCTACTTGCAGATGACATGATCTTATGTATAGGA
AATCCTAAGGATCCACTGAAAACTGTTAGAACTAATAACATCAGTAAGT
TTGCAGGATTATAAGATTAATACAAAACTCGACTGAATTTCTGTGCACT
TGCAATAAACAAACCCAAA

DG5S132: 170442700 - 170442947

TCTGCCCACACACTTTTATGCTTTAAACAAAAGGCCATGTTGAACTTGTA
GAACCAAATGATTGCTAATTACTTGGGGCGATACTAGTGATATATTATCT
TACATACACACACACAAAACACACACACACACACACACACACACACAC
GGCTTGAGTCCAGCATGGCCTACTGATTTTAAATAGGAAATGACAGTGT
AAATGCCAGGATAAAGGACAAAGTGCTCTGACCTGTTGCCAAACCTT

FIG. 7L

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DG5S136: 170469573 - 170469843

GGGTTTAGGACCCACGTATCTTTTGTGTTGTTGTTGTTGTTGTTGTT
TTGGAGTTCAACATGTTTATGGTGTGTAGCCATGGTTGAAAGCTTTTATT
TTATAAGATAGACAAAGCAGGAATTATTCTCATTTTACAGGAGAAAA
ACAGAAGGGCTATGTGGTTTGTTAAAAGGCCACACAGACAGTAAAGAACA
CAGCCTTTACATGGTCAGCCTCACATTCTAGTACTCATTTTATTACACTG
CTCTTCTTCTCTGTTGCCTG

DG5S133: 170480360 - 170480621

CTGGCCTCTTTGCCCATTTCCTAATTGGATTATATGTGGGGTTTTGTTGT
TGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT
CCTTGATATTCTAGATATTAATCCCTTGCCAATTAATAGTTTGCCAGTA
TTTTCTCCCATCCTGTAGGTTGTTCACTCTGATGATTGTTTCCTTTGCTG
TGCAGAAGGTATTTAATTTGATATAATCCCATTTATTTACTTTTGTTTCT
GTTGCCTGTGA

DG5S17: 170499980 - 170500284

CCATCCAGGGTCTAACTCCAGCATTGTATAACTTGGACAATACTTTTG
CTACAGGGTTGTCATTGAAAGTATTGCCTCATTATATTTCTTAGTGGTCC
CTGTATGAAGCCATATAAGAGAACTTCTTAATTTAGCACTAGGAAATGC
TTCTGTTGACTTGAGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
TGT
ACTATAAAATAATCTTTCTCTTTTCACTTTGGCCATCTGGAAATTTGCCA
CCAA

DG5S137: 170644993 - 170645364

TGGCTTCCCAATCCTAGAAAAAGGAAGAAAGCTGCATGTTGTTGTTGTTGT
TGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT
CCAGGCTGGAGTGCAGTCACATGATCTCAGCTCACTGCAGCCTCTGCCTC
CCTGGTTCAAGCAATTCTCCAGTCTCAGCCTCCCAAGTAGCTGGGATTAC
AGGTGCGCACCACCACTCCAGGCTAATTTTTGTATTTTGTAGTAGAGACG
GGGTTTCACGATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGA
CCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACC
GCACCTGGCTGAAAGCTGCAT

DG5S53: 170673106 - 170673364

GCCTTCGCAGATTGTACCTCTTCCTTTACCCCTTCTCGCTGGCCTGTGCT
TCTCTCTCCATCGTGGTCTCCACGCCTTGGTTTCTCCTCCATCCCCATC
CCCATCTTTCTGTAGCCCCCTCCAACTCTCTCCCCGTGTTTGTACGGTCT
CCTGCGTTCACTTGATTTCTCTCACCCACCCCGCCCCAAACACACAGG
CACACACACACACACACACGCGCACACACACGGGCCTCTCGCACTCTC
CTTCTCCT

FIG. 7M

DG5S904: 170735417 - 170735632

DG5S906: 170820130 - 170820505

DG5S141: 170910447 - 170910786

DG5S909: 170941109 - 170941259

DG5S910: 170946679 - 170947010

FIG. 7N

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CTATCTCCTTTACTAAACAGTAAGCTCCATGAAAATATGGATCATCACTG
TCTTATTCACCATTATATTCTCAGCATATGGTATTGTCCTGGTATAGAAT
AGATTCTCAATAAATGCTTGCTAAATGAATGCATTCATGAGTGAGTGAAT
GAATGAATATGCGAGTGGATGAGTGTGTGGA

DG5S911: 170985696 - 170986066

TGCTTGAGGGCAGGATCTATATGTAATTCCTTTCTGGAAAACCAGGGATT
GAAACAGGATCTGGCATGCAATGGGCTGGATGGGTGAATGGAGAAATAGA
TGAATGACAGATGGATGGACAAACAGATGGAAGGAAGGATGGATGGATAG
ATGGATGGATGGATGGTTGGATGGATGGATGGATGGATGGATGGATGGAT
GGATGGATGGATGGATGGACAGATGGATTGGTTGGTAGATGTGTGGATAG
ATGGATGGGTGAACAAGCGAGTAGATGGATGAGTAAATGGCTAAATCTGG
TGCTTTTCTCCAGAATCCTGGATTCTGAAGGGAGGCTTTCAGCCCTTC
CTCGTGGATCACTTGCTCTG

DG5S143: 171018986 - 171019237

GGCTGAATTACTGGGCATGTTTCTGAGAAGAAAGAACTTCTATTTTAATT
ATATATCTACAGAAACCAAATTGCCTGCTTACAGTTTTACATGTCTGATG
ATTGGAAGTTTTTGTGTTGTTGTTGTTGTTGTTGTTGTTTCCACAGACT
AGCCTCTGACTCCATATATTTCAAACCTTTGTTCTCTTCCACTACCCACA
TATTTCTGATGTGAGACATTCTAGAAAAATTTTCATATTGCAAGACGGCTT
C

DG5S513: 171039003 - 171039366

TTGGCAGGATTCAGTTCCTCATGGGCACCAGACGGAGAGTCTCAGCAAAT
CACTAGCTGGTGACTGCAGCCACCGCAGTTCTTTATCACGTGGTTCTCTC
CATAGGGCAGTTCACAGTGTGGTAACTTGCTTCATCAGAGCAAGCCAGGA
AGAAGACCCAGAGACAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGG
AGGCCTCTGAAAGAGAGAGAGAAGAGAGAGAGGCAAAGAGAGAATGAGAA
CTCCAGAAGTCACTGTCTTTATAGCCTAATCTTGAAAGTGACATTCATC
ACTTTCACTACATTTTCTTCCCCAGCAGTGCTCAGTGGGAGGGGATTATA
CACGGCCATGGAT

DG5S145: 171040948 - 171041151

GCACATTTGCAGAGGTTTGAGGTCCCATCATTAGCCATGCTTCTTGGTTC
CTGCACTATGAGTATACGTATGTGGGCTGATGGCCTCATTCACTGGATAC
ACACACACACACACACACACACACACACACACACCTCACCAGGG
ACTTGGGAGTATCTAAATGTTTGAGAATCATAGAGCAGGGAGACATCCAA
CAC

DG5S146: 171073796 - 171074122

GGGCACATACAGCTTTCCTTGCAGGAAAAAACCTGCTTAACTTTGTTTA

FIG. 70

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TTATATATTATTTGATCTGTGCTTCATATATTATTCATATATTATTTGAT
CAAGTTGCTTCATGTATTATTTGATCAAGGAATCATGTGTGTCTACAGCA
CCTATTA AAAATCCCTGGCACTGAAATTCTGTAGAAAACCATTTAGGAAA
AGTTGATCTAACTGTATAATTATTAGTAAAACATATACACACACACATAC
ACACACACACACACACACACACACACACCACAAGCAAACAAAAAAAACC
ACCTTAATGGTCTCCTAACCAAGGCA

DG5S147: 171107565 - 171107831

GCATGTTCCGCACAGAGATTCAATTAATTTAAATAGGTAGAGGACTTGGG
GCAGTGCCTAGGACAACATTACACTCAGGGATGGTGATGATGATGATTAT
AATGATGATGATGATGTTGATGATGATGATGTTGATAATGATGATGATGA
TGATGATGATGATGATCATGATGATAATGGAAGAAGATAGAGGAGGTA
GAAGAGGAGACAATCATGATGTTGGAGGTAGACTCCAATCTTCAGAAATCA
GAAGCTCAGGGTTGGA

D5S462: 171134297 - 171134396

AGCTTAATCTATTATTTNAGAGGCAGAAAGTTAACTTGCTTATCCTGAAA
AGAAGTGCAAATATATCCCAAAAGTGCCATTCTTTCATTCATCCACTCAA
ACAGATACACACACACACACATACACACACACACACACACACCCTTTT
CACCCCTTGGTAGTGTACAGTCTCTGAGTTGTAAAAAATAGTCATTNCTT
TCTGCTTGAAAGACTGTATTAGCT

DG5S148: 171140975 - 171141303

CCAGCATGATCCTATGAATCCTTATAAAAGGGAGATGGGAAAATTTACACA
CAGATAGAGA
CAGAGAGAAGAGGATAAGGCAATGTAACCATGGAGGCAGAGATGGGAGTG
CTGTAGCCACAAGCTAAGGAATGCTGGCAGCCACAGATGCTGGAAGAGTT
GAAGAATGGGTTCCCTTGAGGGAGCACAGCCAGATGCATGCTTTGAGAG
TTCAGCCCAGTGCTACTGACTTTAGACTTATGGTTTCCAGAACTACAAAA
AATTAATTTCTGTCGTTTCAAACCATCC

DG5S914: 171219902 - 171220159

CAAACGTCGCTGACCTGAGTCTGACCTGGGCTGCCTCGTGTTACCAACAT
GAAAAGGGAGTGAGAAAATCTGAGGCCAATTAACCTTCTCTCCCTCTCTCT
CTCTTTTCTCCCTTGCCACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
CTCTCTCTCTCTCTCTTTTCCCTCCTCTTCTTGGAGACATGATG
AAATTTCTGAAACAAAACTCGCAGCCCGTTCAATAAAATGCTTTGCGC
TTTGGTG

DG5S150: 171232854 - 171233077

ACAGTTGCCATTTGCTCATTTAAAATGTAGTGAGGTGTTTTAAAGAGGGT
TTGTTCAATTTACCAAAAAGGGAAAAAAGGGAAAAAGAAGAACTTATTG

FIG. 7P

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TTGAACGAACACACACACACACACACACACAAAGAGCCTGGCTTAATT
TAGGGATAAAGCAAAGAAGTCAATACCCCCACATCAACTATTGAAACCTA
AGCTATTGCTGGAGTTGACAGCG

D5S429: 171276128 - 171276490

AGCTCTNCCTAGCATTGTTTTCTTTGCTTCATTTCTCTTAAATGTGTT
GGATGCACTTNGTTCCTGCTAACTAATCTATCTTTNCAGTTTCAAATCAA
ATGAACCCAGAGAATTTATTTTTACATTATTATCTTCAGATTTAGATTTG
TTTTGCTTTTAATCCTGTCTTCATGAAGGGGAAAGCCATGTGTACCAGCA
TGGTTGATAAACCACCAAATCGTGAAACTTTGCTTGCTCCCCAAACCCCC
AACCACACACACATACACACACACACACACACATACACACACACACACAC
ACACACACACACACACACACACAACCTGGGAAATTGGGNAGAAAACCTGGC
AAACCTTAAACTAG

FIG. 7Q

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Exon	Start (B33)	End (B33)	Size (bp)
1	168663060	168663256	197
2	168613935	168614006	72
3	168607252	168607323	72
4	168556026	168556097	72
5	168245813	168245884	72
6	168207132	168207203	72
7	168185808	168185879	72
8	168179848	168180011	164
9	168168994	168169135	142
10	168158055	168158126	72
11	168152108	168152179	72
12	168148455	168148526	72
13	168136783	168136926	144
14	168135329	168135492	164
15	168125087	168125237	151
16	168123410	168123484	75
17	168116412	168116555	144
18	168115503	168115646	144
19	168112020	168112183	164
20	168110850	168110982	133
21	168086964	168087032	69
22	168085481	168085552	72
23	168084804	168084875	72
24	168074831	168074902	72
25	168073443	168073606	164
26	168070524	168070648	125
27	168063130	168063227	98
28	168058840	168058979	140
29	168055155	168055248	94
30	168049527	168049664	138
31	168048235	168048475	241
32	168046514	168046644	131
33	168035725	168035879	155
34	168033746	168034031	286
35	168032331	168032539	209
36	168024289	168029237	4949

FIG. 8

247/299					
Start (B33)	Marker	Public alias	deCODE alias	Variation	AA CHANGE
168029068	SLT_703026		SG05S17	A/G	
168034952	SLT_697143	rs1864953	SG05S7	C/G	
168036088	SLT_696007	rs292487	SG05S44	A/T	
168044802	SLT_687289	rs292488	SG05S9	C/T	
168048470	SLT_683623		SG05S16	C/G	P to R
168051407	SLT_680684	rs898401	SG05S24	C/T	
168055569	SLT_676522	rs1368354		C/G	
168058856	SLT_673235	rs1864954	SG05S10	C/T	
168058869	SLT_673223		SG05S228	A/T	Y to F
168062704	SLT_669387	rs1314889		C/T	
168065178	SLT_666913	rs1432804		G/T	
168070500	SLT_661589		SG05S15	C/T	
168070584	SLT_661505			C/T	
168070632	SLT_661457		SG05S14	C/T	
168073885	SLT_658204	rs1155191	SG05S11	C/G	
168074782	SLT_657307	rs1864952	SG05S12	A/G	
168074812	SLT_657277		SG05S13	C/T	
168080074	SLT_652015	rs2611845		C/T	
168082925	SLT_649164	rs2337550	SG05S26	A/G	
168086306	SLT_645645	rs1460099		C/T	
168090782	SLT_641364	rs1585399		C/T	
168096386	SLT_636323	rs2116758	SG05S28	A/C	
168102835	SLT_629874	rs2337552	SG05S27	A/G	
168112060	SLT_621478	rs2304035		C/T	
168116132	SLT_617406	rs1549910		A/G	
168116213	SLT_617325	rs1549909		A/G	
168116711	SLT_616823	rs870723		A/G	
168121401	SLT_612136	rs891923		A/G	
168123071	SLT_610466	rs2288798		A/G	
168123214	SLT_610323			C/T	
168123303	SLT_610234			C/T	
168125044	SLT_608499			A/G	
168128487	SLT_605050	rs1014194		G/T	
168133445	SLT_600093	rs1298695		A/G	
168136894	SLT_596643	rs2288792		A/G	Q to R
168143992	SLT_589545	rs871099	DG00AAHUW	A/G	
168148230	SLT_585307	rs2292141		C/T	
168148494	SLT_585043	rs891921	DG00AAIER	C/T	V to A
168148550	SLT_584969		DG00AAIEL	C/T	
168152032	SLT_581505		SG05S21	C/T	
168152504	SLT_581033			A/G	
168152941	SLT_580597		SG05S19	A/T	
168153523	SLT_580014			A/G	
168153946	SLT_579597		SG05S18	A/G	
168154018	SLT_579519			A/G	
168154461	SLT_579074		DG00AAIEM	A/G	
168154722	SLT_578813		SG05S23	A/G	
168158166	SLT_575368			C/G	
168168958	SLT_564589		DG00AAIEN	A/G	

FIG. 9A

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168169017	SLT_564530		SG05S22	C/T
168180050	SLT_556437		DG00AAIEO	T ins
168185893	SLT_550503		DG00AAIEP	C/G
168185972	SLT_550582		SG05S20	A/G
168201434	SLT_537097	rs1979923		A/G
168205103	SLT_533429	rs1875971	DG00AAHUV	C/T
168212670	SLT_526304	rs1504954	DG00AAILW	A/T
168234201	SLT_504791	rs1466947	SG05S25	A/C
168245982	SLT_525276		DG00AAIMR	A/G
168387458	SLT_317099	rs731717		A/G
168535394	SLT_169267	rs1006329		C/T
168607241	SLT_96349		DG00AAIHU	A/T
168613336	SLT_90256	rs972031		A/G
168613791	SLT_89801	rs1421764	DG00AAIHQ	A/G
168663904	SLT_10323	rs1862217		C/T
168666183	SLT_8967	rs1422028	DG00AAIHR	C/G
168666252	SLT_8898	rs1422029	DG00AAIHV	C/G
168666372	SLT_8778	rs1422030	DG00AAIHS	C/T
168677067	SLT_278	rs1592818	DG00AAIHT	G/T

FIG. 9B

249/299

RS1875971

CCTGACAGCCCTCACGGTCATTCTCTGTGCTAGGAACGGTGTTGTCTTAC
CTCACCAGGAAGGCAGTCTGAGGGAGAAGAGAGGGCTTTACAGCCAGACA
CACCTGGGTGGGGCTTGGGTCAAGTGTCTTCATCTCTCTGAGTCTATCTC
CCCAACTTTTAAAAACAGACAGTGTATGTACTACATAGGAGGGGGCTCTCA
TAACTGCCATCCCTTCCACTTTCCTAACTTTGCCCC[C/T]ATACACCCT
CACCCCCATCAAGCCCTTGCCCAGGACAGATTTGGACAGCTCTCCTCTAC
TCAGATAAAAAAAAAAAAAACAAAAAAAAAACGAAAAACGGTATCCAGA
TGCACCAGGTGTCTCCAAGTTGAAGCTTTAAAAACCTGTGACTGAAAGAA
AAAAAAAAAAGTTCTCATTCCTTATCATTGCAAAGAGCCCATAGGATCTGA
TTAGTTTATCTTCTCAATTCCAAACAAAGCCAGATCAATAGGTTTGT
AAAGACACTCTCATTTGGCTTCACATGGCTAAGTACTTAAAATTAATCAT
AATCAGTTATTCCATGGGTTTTTAATTTCCAGCAGAGGCACACAGCTTTG
AAACCATCCATCTTAATGGTGAG

RS2055911

CCCTTTTACCCAAAATCTAATCAGACCAATCCTACCTTCCAAATATCACT
TTTCATTTCTTTTCTCTTCCCACTGCTGTACCTTGTGCATGGGCTATT
ACAGCTGTCTATCTGCATCCCACCATCCTCTGCACTGCACGTGGAGTAA
CCTTTCTGAAACCTCCATTGGAGCTTGACTTGACTCCACTTAACATCTGA
AGATCTTTCCGAGGGTTCCTCACTACCCAGACTCTCATCATTGCATGTGT
TCCTCTGTGGTCTGGTCTGGTGCCTGCCTGCTTCTCTGTTCTCATGGTGT
ACACACTCACCACACTCCATTTGCTTCATATTCCTCTGTCTGTCTGTCT
GTCTGTCCACCTCCCTACCTCCCCTCTCTCCCTCCCCTACTTCTCTCCT
CATAACAAACCTCTTGGTGATCCCCAGTGGGTCATGATGTATAAACATTT
GCACATAATATTGCCTCTACCTGTCATAACCTTGTGATAACCTTACCGCA
CATAGAGTGTGCTAAGTGTCCAGTGCTCCCAGAGACCCCTGGGCATGCCT
CTAGGGGACCACTCCTATAGGTCTGAGTTCCTC[A/G]GCACCCAGGGT
AGGGCCCTCTCTCTAGTGAATTGCAGAGGGCCTGCACATGGGAAGTGC
TCACAGCCTGCCTGCCTCCCTGCCTGTGGAACAAATGGGATTGAACTCTG
ACCCTAAAAGGACTGTGACGGTGATCTCCTGGGACATGCATTCTAGGGCC
CTCCAAGGCAGTTCCTCTTCCTCATATTTACCTGTCTGTGTGCATGTCAC
TCCTCTCTCGACTGTGAAATGGGAGCACCTGGAAGGTGGTACCCAGCAGC
AATGGACGGTCTCTGGAGTCAGACTGGCACTCCAGACCCCTCTCAGGCAC
TGAGGAGTTGTGTGCCCCCTTAATATGTGCCAACTCACTTTCCTCAACT
GTAAATTGGGGGTGGTCAATTGTTATCACCTCTAAGGATTGTTGCAAGGAT
TAACTGAGATAATTTGCATAAAGCACATAGTCTACATCTTTGCTCTTCAA
TAAAGGGCAGCCATTGCTTTGTTATTTCTAGCTGTACCTTCTACTTGA

RS2879135

TCATCTCAGTTCACCCAGCTGGTAAGCGCACAAATGGGATTTGTGGGAGCC
TACACAGCCCTGAAGCTGACCAATGGTCTCTGGGACATGTATGACCCTG
AGTTAAGAGTAGACGCAGTTCTAGGTGATAGTTCAAGTCCCCCTGAGCTC
TGAAGTACATAATTCACAGATTTTTTTTTTTTCCCATCACTAATAACCAA
ACATTTGGAGAAATAACCCCTGGCATTCTTAAGGCTTCTGTGCATCAGAG

FIG. 10A

250/299

GTGGTCACAAGGTTTACAATTTAAAGAATATTTGGGGATTAAACTCAGAA
AACCAAGCCACCACAGTGCCACACTTCTGTCTTTTGTGGGTGTCTTAAAA
ATGAATGCTTTCTTATCGTAGTTTCTGACCAGAGGCAGCTTCCTTTAAAG
GCTAAAGGAAGCAGCCCGTCTCAGCTCCAGCAGGTCAGTAATGTGACGAG
ATAAAGGGCAGTTCCTTAATGAAAACCACTCTCCCTCCTGCCAG[C/T]A
AAGGAGTTTTCTTAGTGCATTTCAAGTCCTCTAACACCTCTTCCCAGATC
AATGGCTTTTCATAAATGCACCAGGAGATCTTTGAACCACTAATGCTTCA
GGGGCTGTTTAGGTTTGGAGTCAAACCTGTTTAATACTCTCCTCCA

SLT_504791

AGGTCAGCAGGACAGCCAAGCCCTGACTCAGCTTCCCAGCCACAGTGTGA
AGCGTATGAGTGTGAAAGTCTCTCCTTCAGAGAAAAGACCAGTGGTCCAA
AGACCCTGCCCATTCCCGTAGCTGTGCTTCCCCAAAGAATCTCTGAGGAG
GTTGACATAATGGTGAAGTGCTCAGACTCTGGAGTCAGGCTGCCTGGAGT
CAAATCCTGGTTCTTACCACCTTTATGACCTTAAGCAAATTGCATGCCTC
CTCCTTAGCCTCAGTTAACCCATATGTTAAGTGGAATAATATAATCCCC
CTTTATGATGTTGTTTTGAAGAGTAGTAATTATTATTGCTGCTTTTATTC
CATCTCTGAGAATTAAGTAGGCCCAGGTTATCACATCTTAGAGACTAAAT
CTTCCCTTCCTAGACAAATATGTGCCCC[A/C]AAAAAAGTCATATTTA
TAGTTTCTGGCTCTGAAATGACCCTCCCTAACTAGTAAAGATATTTAAC
TTCATCACTCTTTCTGTTATTTCTTTGAGTGGGGCTGACCTCTTCCGGCA
TATGGCTTCTAATGGGCTAGGTATAAAGTAGGCCAGAGAAAAAGAGGGTG
TAACTTCCCTGCCCTGTCCCTTCCCTCTTGTCCCCACCAAGACATGGAAAG
GACGAAAAGAACTGAGGAGTCCAGCTCCGCTATTAACCGCTGCCTGCCT
AGGGTAGGCTGAAAAATGGCTCTTCTAAAAATGCCTACATCCTAAACTCT
AATGTATGTGAATGTGTACTCCACATAGCAAAAAGGATTACAAATCAAGA
ATCAGGTTCTTCAAGTGGATAGATTATCCTGGATTATTTGAGG

SLT_525276

GGGTGCAGTGTGTGCAACAAATAACCCAGCCTCTTGGCTCGTGGCCTGGA
GGTGCAAGACCACCCACAGAGCCTGCCCTGGAGGCGAGCTGCTCCGCCTG
GTAACCATTTACAGCAACGGCCATCACTTGAAGAACAATGTGAATGCTTGT
AGCAGCCTGGGGCCCCGAGACCAAACAGCCGCCATACACTCTGACCGCAGA
G[A/G]CAGCAGCCTGGGTGGGGGGGATTGTTATCATTTAATGAGATGCA
GATCAAGACAGCCTGGGTCTTTAATGCAGTGTGCCTCTTCTCTTCTTGT
TAGAGATTTGAGTGA AAAACAGATCCAGGGGATCCCGAGGAAGGCGTTCC
GCGGCATCACCGATGTGAAGAACCTGTAAGTGATGTTTTCCTTGCTTAC
TACGT

SLT_526304

AATCAGTAAACATATCTATATGTATTCTAGGGTCTGGTGGGCAAGTGTAC
AAAATGAGCAAAATGATAGATTCACCTCCTTTTGTCTATTTGAGATGTTG
TTTTAATGTAGAATTACAGTAGCCCTCAAATGATGAGAAGCAGTGACAAT
TCATTAGCAGATTGTGGCTTAGATCAAGTGTTTGATTTCTCTGAGGAAGT

FIG. 10B

GTAACCAGTACTCAGTTATATGAAGTATATGCGTTTCTT[A/T]TGAAGA
TAATTTTTTTTCCCTTTTGTGTCAGTTAAAATAACCTTGAGCTTTATTTTTTTC
AAAGACCCCAGCTAGCAGCAGACAAATGCTTCTATAATTTGTTCTTCAAT
AATGATTTTTTAGAATGTTAAACTGTCATAAAAAAAAAAACCTTCAAAA
GCGCTTCTAGATTTCTATTCTCTGCTTAAAGGACAATTGGATAATAGGG
AGGAAAGAAATAGCATGTCAAGGCTGCTTCACATTTTGTCTTCTGCCTTG
GTTTCATGAAAGCAGGGATTCCCCCGGTTTTCTTTTACAGTTACAATATT
CTATTTCTCCTCCGTCTAGAAAAAGAATACTTCAGATATGTACATTGATG
AACATATATATATTCA

SLT_533429

CCTGACAGCCCTCACGGTCATTCTCTGTGCTAGGAACGGTGTTGTCTTAC
CTCACCAGGAAGGCAGTCTGAGGGAGAAGAGAGGGCTTTACAGCCAGACA
CACCTGGGTGGGGCTTGGGTCAAGTGTCTTCATCTCTCTGAGTCTATCTC
CCCAACTTTTAAAAACAGACAGTGTATGTACTACATAGGAGGGGGCTCTCA
TAACTGCCATCCCTTCCACTTTCCTAACTTTGCCCC[C/T]ATACACCCT
CACCCCATCAAGCCCTTGCCCAGGACAGATTTGGACAGCTCTCCTCTAC
TCAGATAAAAAAAAAAAAAACAAAAAAAAAACGAAAAACGGTATCCAGA
TGCACCAGGTGTCTCCAAGTTGAAGCTTTAAAAACCTGTGACTGAAAGAA
AAAAAAAAAAGTTCTCATTCTTATCATTGCAAAGAGCCCATAGGATCTGA
TTAGTTTATCTTCTCAATTCCAAACAAAGCCAGATCAATAGGTTTGT
AAAGACACTCTCATTGCTTCACATGGCTAAGTACTTAAAATTAATCAT
AATCAGTTATTCCATGGGTTTTTAATTTCCAGCAGAGGCACACAGCTTTG
AAACCATCCATCTTAATGGTGAG

SLT_550503

GAGGGAAGGAGGGCTCCACCTGAATAAAAAAGTCAGGGCATGCTCTTCTC
GTCTGGAGACCTGTCCACTTGTCTTACAGCTGCTCCACTGGCTGGGCCATG
ACTGTTGACTCATGGTCTTGCAGTCACAACCATCCCTCCCCGACCTACT
ACAAGCATCTTGGTGCCTCCCCTGCTGCTGCCTGGCTGACCATCTCCCTT
[C/G]TCTATCTCCACAGTACCCTCAACAACAACATCAGTCGCATCC
TGGTCACCAGCTTCAACCACATGCCGAAGATCCGAACCTCTGTGAGTAAGA
AGTCTGTGCATCTCTCCCATTTTCTCCCTACCTCACGCCCAAAGTGCAGC
ACTCTACGCTGCTTGTCAAACCTACCATGCTATGACTAGGCAGATGGTTC
CGACAT

SLT_550582

GAAGCACTCAGTGCATAGGAGGGTTTCAGGAAGCGATACTCTTACTCAAG
GTGGGTAGGCAAGTCCTGAGAGGACAGTAGAGGGAAGGAGGGCTCCACCT
GAATAAAAAAGTCAGGGCATGCTCTTCTCGTCTGGAGACCTGTCCACTTG
TCTTCAGCTGCTCCACTGGCTGGGCCATGACTGTTGACTCATGGTCTTGC
[A/G]GTCACAACCATCCCTCCCCGACCTACTACAAGCATCTTGGTGCC
TCCCCTGCTGCTGCCTGGCTGACCATCTCCCTTGTCTATCTCCACAGTAC
CCTCAACAACAACAACATCAGTCGCATCCTGGTCACCAGCTTCAACCACA

FIG. 10C

252/299

TGCCGAAGATCCGAACTCTGTGAGTAAGAAGTCTGTGCATCTCTCCCATT
TTCTCC

SLT_556437

GCTATTAAAAAATGAGCTTTGCTCAGAACCCCGGAGGCATCCTTTGGATG
TGACCTGGCAATGAAAGGGTTGGGGCTCCAATGTTTTGGTAGTGCAGAG
GGAATTGCTTCCCCTGGGCTCCTAGGGATTTTCACACTGGAGAAAGGGGC
AACAGGGGTTTTGGTCACTCTGTCTGGCCAGTGACAGCCTCCACACTTCA
C[C/T]CTGTGACCATGCCTTCTCTCTGTCCCGCCCTCTCCCAGGCGCCT
CCACTCCAACCACCTGTACTGCGACTGCCACCTGGCCTGGCTCTCGGATT
GGCTGCGACAGCGACGGACAGTTGGCCAGTTCACACTCTGCATGGCTCCT
GTGCATTTGAGGGGCTTCAACGTGGCGGATGTGCAGAAGAAGGAGTACGT
GTGCCCCA

SLT_564530

CTTAGGATGCTGGTTAAGGACACAGAAGCCCAGGCAGCTCCTGACACTGA
CATAAGTTGACCGTTGTGTCTTGGCTCCACAGCCCCCCTCGGAGCCCC
CATCCTGCAATGCCAACTCCATCTCCTGCCCTTCGCCCTGCACGTGCAGC
AATAACATCGTGGACTGTCGAGGAAAGGGCTTGATGGAGATTCCTGCCAA
[C/T]TTGCCGGAGGGCATCGTCGAAATGTAAGTGCACCTGTCTGACACC
CCCAACAACTGTCGCCGAGAAATTCAGCTCCCTGTCCCAGCCCATCACCC
ACTAGGCCATCAGCGTGTGGGGCTGCTGGAGCTGACCATTAAAAACACTC
AGGAATCTCTTTGCTGTCTTCCACACTTTCCCAGCTATGATAGCTTGGT
GGTCAA

SLT_564589

ACCGTTGTGTCTTGGCTCCACAGCCCCCCTCGGAGCCCCCATCCTGCA
ATGCCAACTCCATCTCCTGCCCTTCGCCCTGCACGTGCAGCAATAACATC
GTGGACTGTCGAGGAAAGGGCTTGATGGAGATTCTTGCCAACTTGCCGGA
GGGCATCGTCGAAATGTAAGTGCACCTGTCTGACACCCCCAACAACCTGTC
[A/G]CCGGAGAATTCAGCTCCCTGTCCCAGCCCATCACCCACTAGGCCA
TCAGCGTGTGGGGCTGCTGGAGCTGACCATTAAAAACACTCAGGAATCTC
TTTGCTGTCTTCCACACTTTCCCAGCTATGATAGCTTGGTGGTCAAGAG
CATAGACTCGAGATCAGAATCAGCAAGCTATAGCCTAGGGCCAGGGGTTCC
CACTG

SLT_578813

GTAGCCCCAACCCCCAGCCTACAAATCAGACACTCTGGAGTGCATTTTTA
ATCTACACCCCTCGTGAGGTTTGAGAAGCACTGGTCAAGAGTCATCCCAGT
GCCCAGAATCAGTTCTAGGAGCAGCTGCTGTGGCTAGGGACAGGTCATGC
ATGGAGGTCAGTGGGCAGCTGGAGCCATCTCCCATCTGCCTTCCAGCTCA
[A/G]TGCCCTGCATTGTGCCTCCATCACAAACAAAATAGCAGAGGGGGCC
TTGAGCTGATAGGAGACTTGAGATGCTTGCTCTGTGCCCAAATGGCTGTG

FIG. 10D

253/299

TCCAGTCACTTATGGCTCCAGGTACTTCACCTCTCAGGGCTGCTGTTTCC
TTCTTGCAGAATTAAGAATTAAGACGCAGTTTGCCAAATGTTCTCACTTA
TACATG

SLT_579074

ACTTGAGATGCTTGCTCTGTGCCCAAATGGCTGTGTCCAGTCACTTATGG
CTCCAGGTACTTCACCTCTCAGGGCTGCTGTTTCCTTCTTGCAGAATTAA
GAATTAAGACGCAGTTTGCCAAATGTTCTCACTTATACATGGAATCTAAA
CAAAGCCAAACTCTTAGAAGCAGAAAGTAGAATGGTGATGTTTCAGAGGCC
[A/G]GTGGGGTGAGGGTGGGGTAGAGATGAAGATGACACAGATGTTTCGT
CAAAGGGTGCAAATTCAGGTAGACAGGAGAAGTAAGTTCAAGAGATCC
ATTGTGTTATACAACACGGTGAATGTAGTTAACAACAATGTATCGTATAC
TTGAAAATAGCTCAGAGAGTAGATTTTAAGTGTTCCTTACCACAAATAAAT
GATAAG

SLT_579597

GAGTACAGTAGTGAAAAAGGAGGAAAGAGTAGAACAAGGAGTTTGATCTG
TAACTGACTGTGAACAATCCATTGAGAGAACTCACTACCTTTGAACCAGC
CTAAATATGCAGTTTTTATAATAATAAAGAAAAAGACAAAGTGACCAAGG
TCAATTCCCAGCTAAACTGTCTATCACTTCTCCAATTCCCCTCTCCAGC
[A/G]CCTCCAAACCGTGGGGCATCTCACCTCATACTGTAGGGAGAGATG
GGTCCAGAAGTCTAGTTGTGGACTGAAAACCAGTTTGCCCTCCCAGAGCT
AAAGCAGAGGGTTTCCGTGCTGGCCACATAGCTTCCTCTTGCAACTAGAG
GTCTCAGCACCTTGAAGGGACAATTCATAATCAGGGGAAAAAAGACAAC
ACAGGC

SLT_580597

CTCTCCTTCCAGTGACAGGATCCCAGAGGCCATCCCTGAGCTAATGACTC
TAAGAGAAAGAATTTCCCCTCAGTGAAGGGCCATTAGCAAGAGCTGGTGT
CCAGGTTCTCAGAAGTCACTGGGATGCCCGTAATTGAGCAGCCTACAGGG
CCTCTGGGAAGGAGCCAGGGTCGAGGAGATTTCCTTTGCACCTGCAAAGCC
[A/T]GGTTAGCTGCCCCAGACCCCGGGCCCAGCATTAATAGAATCCTCC
TGGCCACAGCATCCCTCTTGCTCTCATTATCCAAAGCCTGGGACATTCT
TATGCCCTGGACTTGCTCCCAGATGAGGAACACACTGCCAGCCAGTGACA
AGCCACATCTCCAAGGCGTCCCTGAGAATCCCAGGATGTGCTTACATCA
CACAGC

SLT_581505

CCGTTATCGCACCTTTGAGCCATGTTCTCAGACTTTACCGTTAACGTTTT
CAGAGACATCAGCAAGAATCAGATATCGGATATTGCTCCAGATGCCTTCC
AGGGCCTGAAATCACTCACATCGCTGTAAGTGGGGCCCGAGTTGGGGCCT
GAGGTGAGGGGAGGGGGGGCGCTGGAGGGAAGAGAGACGCAACCATATTT
[C/T]TCAGGAGGTGTTTATCAAGACTTTATGTTCCCTTACACACTTGTG

FIG. 10E

254/299

GCAACCTGGTAAAAGAAACAAATATTTCTTCAGGGGAAATTGATCTTGGG
GAATATTTCTACAACCCAAATGCATTATTTTATTGATTAAGCGCCTGGC
AGCTTTCCCAGTTATTGGCTTCTAATTCGAATGCATCTTCTACTCCAACC
TCACGT

SLT_584969

GGATAGAGCCCATTTCTACTCACCTCCCAGACAACCTGCCCTTCCAGCCC
CTGGCTGCTCTTGGCTGCCTCTGTCTCGCTGATGAGAAGGGATTAGGCAG
GCCGTGGAAGGGGTTGTCCTGAGATCTCATACCCAGAACTGGCCGAGGTG
ATGGCTTCTGCAGGACTGGGTTCTGGTGGCCTCACATCCACAGTGATTG
[C/T]TGTCTTCTCCTTCTCTTTTCAGGGTCTGTATGGGAACAAGATC
ACCGAGATTGTCAAGGACTGTTTGTATGGGCTGGTGTCCCTACAGCTGCT
GTGAGTAGGAACTTTGTCACTGTTGGTGTCTTTGGTACTGTCGGAAGGCT
CCCACCTGAAAACGTTGAGCCATGCTCTGGAGAGTTCTTTTGACTTTCTG
CAGACA

SLT_585043

AGGCTGGGCTCAAGCTGATCAATACCCATTGAAGACACAGGGCCAGTCTC
CCACACAGTGTATTTATTGCTGGGGTGTGAGTCATATTAGCAGCTTAGGG
AGATACCACAAAGAGACCGCTTCTTCCTGTTGGGGATTATGTATTGGGCT
AGGTTGCCCAGGAATGGAGCAGGATAGAGCCCATTTCTACTCACCTCCCA
GACAACCTGCCCTTCCAGCCCCCTGGCTGCTCTTGGCTGCCTCTGTCTCGC
TGATGAGAAGGGATTAGGCAGGCCGTGGAAGGGGTTGTCCTGAGATCTCA
TACCCAGAACTGGCCGAGGTGATGGCTTCTGCAGGACTGGGTTCTGGTG
GCCTCACATCCACAGTGATTGCTGTCTTCTCCTTCTCTCTTTTCAGGGTCC
TGTATGGGAACAAGATCACCGAGATTG[C/T]CAAGGGACTGTTGATGG
GCTGGTGTCCCTACAGCTGCTGTGAGTAGGAACTTTGTCACTGTTGGTGT
CTTTGGTACTGTGCGAAGGCTCCACCTGAAAACGTTGAGCCATGCTCTG
GAGAGTTCTTTTGACTTTCTGCAGACAAAAGAGAAAAAAATGTTTGAGCT
GTCCACGCTTCACCTCCGTTTCTTATTTTATGAAAGGAGAGTCAGCGAG
CGG

SLT_589545

CAGAGAGGTGCTGTGAACTGCAGATCACTCCTTTTGTTATGGCTCAGCAT
AATTCACGGCTCTGTGTCCATGGAACCTTCTCTGGTTCATTGTTTCAGCC
CACTAATGTTTGCTCTATGAGAGGATAGTCAAGGAGCTGCTTGTGTTTAG
AGACCCAATCGAGGTGGGACAATGAGAATTGTCTCCAGCAGAAGAAGCAG
ACTGACTTGACGATGCGTTCTTGAGGGAAGGGTTCTTCCCTCTCTTGTGT
ACCTGGAAAGCCATTG[A/G]GTAGACTTAAATTCTGGAATCATTCATG
CTAGTCATTGAATGAATGGTTCACCCACTTAAAGGACGGATTGGTAACCA
TGTGGCAATCAGATAGGAAAGTTACCACCCTAATAGTCCTGAGGGAAGGA
ATGGGCAAGCCACCACAGGTGAGGTCACTTGATCTGGTAACCAAATAATA
GTTCTCCCTCTCTGGTCTCTAGGAATCTCAGCTTTCATCTGTTTCCCTTA
GGAAAACCCAGTGGCTTACAGCCCATTCCTAGCACCCCTCCTATGTCTCTG

FIG. 10F

255/299

GGGTAGAAAGAGGTCTTGT TTTTCAGACAGGCCGCCCAATGGTGTGCTG
CATGCCTGGTTACTCTTGCATCGGGAATCACCATGACAACCCACAGCCAT
TGACAAGCAGTGCAGTCACCAACAGGAGAGAAGGGAAGAGCCACTGTTGC
CCCTAGTTGGGACTTGGAGGACTCCTCCTGTTTCCCCTTGAGTGTTAGC
AAGACGTGGCCTACAGCACCCATTTTCAAGCACAGAGAAGATTCTGGGCA
GGGTCAGAATTCATGGCTA

SLT_621478

CTGGGCAGCAGATCCCAGGGCCGCTCCCACAGTAGAAGGATGGAGGCTAA
GCACCCTTCTCTCTTCTAGAAACCTCCTGTCCAACCCCTTCAACTGCAA
CTGCCACCTGGCCTGGCTCGGCAAGTGGTTGAGGAAGAGGCGGATCGTCA
GTGGGAACCCTAGGTGCCAGAAGCCATTTTCTCAAGGAGAT[C/T]CC
CATCCAGGATGTGGCCATCCAGGACTTCACCTGTGATGGTAAGAAGGCTG
TGGGTCAAGGTCTGCGGGGAAGGCCCTGGGAAGGCAAGGAAGATGGCGAA
GATGCACAATCAGATACTCCCTGAGATCCAATTCCACTTTGCTTTGGGCA
TGCAGCTGGAGCTCTGGAGAGCTCTGCAGATCTGCTACTA

SLT_629874

CTCATTAGTTATCTCAGGCAGAGCTGCCAGCTTACAAAACAAAATTAAGT
TTAATTCACCAAGAAAAACAAAACAAAGTTGCCAGCATTCTCTCTAAA
GGGCAGAGTGTGAGAGGCTGTTGCAAGCATGCAAGACCCCAGCAATGCCA
TCTGAGCAGGAGGTGATTTTTTCTCCAGTCAGCTCTCTATTAACCCCTCA
CTGGCCCTTCTCTCACA[A/G]TCTCCTTTCAGTTCTACCCTGGGTGAGT
CAAGCCAAACTGAGCCTCATTCTCACATTCAGTCTTGCAAGTGCTCTTTG
AAGTAGGGCTACAGTACCAGTTGCCCTCTTTGTCTGACCCCAAATCCTGT
GCTCATGCCCATTCACCAGAGGCTCTTAAATGTTTAGGTCTCAGGACTC
CTTTATGCTTTTCAGAAGCATCCAGGACTCCAAGAACCTGTGTTTATGTG
GGTTATAGCTATTGATATTGATCATATTACTAACACTGAGAAAATGTTAA
AATATGCATTAATTCCATTTAAAGTAACAATTATATACCCATGACATGT
TTATATAAAAAGCACA

SLT_636323

ATTAATATCTACAGTCAGTTGACTTTTTTAAACAATATATTTAGGAGGTAC
AAGTACAGGTTTCTTACATGCATATATTGTGTTGTGGTAAAGTCTGGGCT
TTAGTGTACCCATCACCCAAATACTGAACATTGTGCCCAATAGGTAGTT
TTTCAGCCCTCAGCACCCCTCCTACCTTTGTAGTCTCCAGTGTCCATTAT
TCTACTCGGTATGTCCATGTGTACCCATTGTCATGCTCCCACTCATAAGC
AAGAACATATAGTATTTGACTTTCTGTTTCTGAGTCATTTCACTGAGGAT
AATGGCCTCCAGTTCCATCCACATTGCTGCAAAAGACAGGATTTCACTCT
TATTTATGGCTGAGTAGTATTC[A/C]ATGTATATAGATATTCCACATTT
TCTTTTTTTTTTTTAAATTTTTTTTTTAAAGTTCCAGGATAGATGTGT
GAATGTACAGGTTTGTTATGTAGGTATACATGTGCCATGGTGGTTTGCTG
CACCTATCAACCCATCATCTAGGTTTAAAGCCCTAGATGCATTAGGTATT
TGTCTAATGCTCTCCCTTCCCTTGCATCCCAACCCCTTGACAGGCCATGG

FIG. 10G

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TGTG

SLT_649164

TCCTACCATTCCTCCCTCAATCCCAACCTATTGTCTTCCATCCCAGTCTAA
TAGTTCCTGTGTGGGTTCACTGCCAGGAGGTGGGACCTGCCAATTTTAA
GGAATCTGCATGCATCTGTTCATAATTAGAGTAGTGATGTTTGGGGCAAC
TCAATATGTAAGAGGGAGAGAAAATGTTTGCCCGTCCATCTGTCTGTCTT
TTGGGGTG[A/G]TGGGGGTGATGGGGTGAACACCACCAGCCTGACCAGG
GTTTTCTCTTCTCAGCATCATTGTCCCAGTCTGGCACTACTACTGCC
ATGAGTTCATCAGCGGTACACGTAACCATAACAACACGCTAGCACTTGCTT
CTTGAAATACGAATTAGTAGGCTTGCCCCAGCATGGTGGCTCACACCTGT
AATCCCAGCACTTTGGGAGGCCGAGGTGGGAGGATTGCTTGAGCCCAGGA
CTTCAAGACTAGCCTGGGCAACATAGTGAAACCCTGTCTCTACCAAAAAA
TTCAAAAAATTAGCCAGGCATGGTAACATGCGCCTGTAGTCCCAGCTACT
TGGGAGGCGGAGGTGGGAGGATCATTGGAGCCTGGGAGGCAGAGGTTGCA
GTGAGCTGAGATCACGCCATTGCATTCCAGCCTGGGCAATAGAGCCAGAC
CCTGTCTCAAAAGAAAAAAGAGAATTAATAGGCTTTTAGCATCATC
ATTTTAGAATCA

SLT_657277

GGGCTCTGAGCAAACTGAAGGGTGGCAGGGCCAGGCACTGGAGGCCCTG
AGAATATGCTAAATTCAAATTAGTGGATGCTAACCTTCCGACCTGTGCCC
TCTGCTTCAGAACCTCCATGGCAATGACATTTCCAGCGTTCCTGAAGGC
TCCTTCAACGACCTCACATCTCTTCCCATCTGTAAGTAGCAGTGTTCT
[C/T]CCCAATGAACATTCAAAACATGAAAGCATGAAAGTGTCAGCGACA
ATGTCACTACTGTCAGCATTTTGGCAGATGTCCTTTCCTTATGCATACAG
TATATTATACAACTATGTATCCACACTATGCATATTGTCTTGTTCCTCAC
CTCAGAAGCCTTCAAAGGAATCCTCAATTATGTAAACACTGTAAATATT
AATAAG

SLT_657307

GCAAAAATGAAGGCCAGAAAAGTGACGTAACCTTATCCAGCATTCCACGG
CTAAGAGAGACTGGTTTCTGATTTGCGCTCAGGTCTATCAGATTGAAAAG
TCCACCCCTTCTTCCGCAAACCCTCTACTCCCTCCATCCTTGCTGCTGA
GCTGGGCATAGAACATTCATGCACCCAGAGCAAAGGGGGCAGCAGCTACT
GCTAGGAGCAGTGGGGCTCTGAGCAAACTGAAGGGTGGCAGGGCCAGGC
ACTGGAGGCCCTGAGAATATGCTAAATTCAAATTAGTGGATGCTAACCTT
CCGACCTGTGCCCTCTGCTTCAGAACCTCCATGGCAATGACATTTCCAG
CGTTCTGAAGGCTCCTTCAACGACCTCACATCTCTTCCCATCTGTAAG
TAGCAGTGTTTCTCCCAATGAACATTCAAAACATGAAAGCAT[A/G]AA
AGTGTGAGCGACAATGTCATCACTGTCAGCATTTTGGCAGATGTCCTTTC
CTTATGCATACAGTATATTATACAACTATGTATCCACACTATGCATATTG
TCTTGTTCCTCACCTCAGAAGCCTTCAAAGGAATCCTCAATT

FIG. 10H

257/299

SLT_658204

TCCCAGTCACAACCTGGGATGAAAGTCTAGCCAAGTGGTTTGAAGCTGCTC
CCTAGGTTGCTGGGTTTTCAGAACCTTCTCTGCAGAGTATATCCTCCAGTG
GACCTTCAACAGGGCAAGGGAACCAGATAATCAGATGGCCAGTGATCCA
GGAAGCTCCCTAAAGGAG[C/G]TAGGATGGGGTTGAGTTGAAGAGTGAG
TCTTACTTGCGTAGGTGAGAGCCACGCCTCAGAAGTGGAAGGGGCTGGGA
TGGGAGTTGAAACTTCCACAGGATTGGAAGTACACTCTGGAGATATTAAC
TTTGCCACAGTGAGAGACGACTACTCCGCTGGCCCCATATTGGATACCTCC
AGTCTAGCCAAAGTCTGAAAATGCATTTCCAGAGAGCCAAGGATATGAAG
GCTACTGGCCAAGCTGGGCAGGGGGCCCTGACTTCCTGTTCTGCCTCCTA
GGGCGCTGGGAACCAACCCACTCCACTGTGACTGCAGTCTTCGGTGGCTG
TCGGAGTGGGTGAAGGCGGGGTACAAGGAGCCTGGCATCGCCCGCTGCAG
TAGCCCTGAGCCCATGGCTGACAGGCTCCTGCTCACCACCCCAACCCACC
GCTTCCAGTGCAAAGGTAGGTGACGCC

SLT_661457

TGGCTGAATTAATGGGACTCTAGCTGGACTGGATGTGCTGGCTGAGGAGA
GCCAGCTGCCATCTGGGCATGGAGTTGGGAAGGGGCTGGCGCTGGCTGAG
GGAGGGCCCAGAGCAGAGGGGAAGGGAGGTATGGCAGTGAGCGCACTCAG
GACCTGCCATCAGTACTCTGGTTTTGCTGCCCAGGGCCAGTGACATCAA
[C/T]ATTGTGGCCAAATGCAATGCCTGCCTCTCCAGCCCGTGCAAGAAT
AACGGGACATGCACCCAGGACCCTGTGGAGCTGTACCGCTGTGCCTGCCC
CTACAGCTACAAGGTATGCTGGAGGCCCTGCCCCCCCCGTGTTTCATGCCTC
AGGCTCCTCCTTCAGCCCTGGCCCTAGAGAGGGGCACCATGCCCTGCGTA
CCCTCC

SLT_661589

GGCAGTGAGCGCACTCAGGACCTGCCATCAGTACTCTGGTTTTGCTGCCC
AGGGCCAGTGACATCAACATTGTGGCCAAATGCAATGCCTGCCTCTCCA
GCCCCGTGCAAGAATAACGGGACATGCACCCAGGACCCTGTGGAGCTGTAC
CGCTGTGCCTGCCCCCTACAGCTACAAGGTATGCTGGAGGCCCTGCCCCC
[C/T]GTGTTTCATGCCTCAGGCTCCTCCTTCAGCCCTGGCCCTAGAGAGG
GGACCATGCCCTGCGTACCCTCCCTTCTCCAAGGGACAGCCTGGATGAG
TCCATCGCACAGGTCACCACTCCAAAGCAGCATTTGCCAGTAACACTGTT
CTCTGAAGTAGCGGGAGCTGCCAGTCAGAGAGGGCCCCCATATGGTCTTGA
CAAGGA

SLT_673223

TTTCCCACCCGTGTCTTCCTCTCTGCCATCCCAACCCACCTCTCTCCCTG
ACCCCTGACTCCCCTGCTCTCCACCCCTCACATCCCAAAGCTGCTCCTGC
CCTCTGGGCTTTGAGGGGCAGCGGTGTGAGATCAACCCAGATGACTGTGA
GGACAACGACTGCGAAAACAATGCCACCTGCGTGGACGGGATCAACAACT
[A/T]CGTGTGTATCTGTCCGCCTAACTACACAGGTAAGGATCTCATGAC
TGTATGTATGGTGGGGTGGAGGGGTGTCGCTAGAATAACATTTTCTTAAC

FIG. 10I

258/299

TTCCTCCAGGGACTCTCTTCCTCTCTCCCTGAGGACAGAGACTAAGACCC
CAAGACTGTGATATGCCAAGAGGGGCTCCCCAAAGGCCTGTTTGCTTCTC
CGTGTC

SLT_673235

GCTGGGGGAATGATGACACCGGCCTTGTTGGTGGACATTAGCCCCAGAGC
GAGGCAGCCAGCATGGGCCAGGGGAGATAGAACATTGCCTGGAGATGGGG
TTGGATGAAATGACCTTTTAGGTTCCCTAAGGGTCTTCCTGCTCAGGACCC
CAAGGCCTCATGTGTCCAAAGTGCTTTCTCAGACCTCCATCTGGAGGAAA
AACTAATTGTATTTCCACCCGTGTCTTCCTCTCTGCCATCCCAACCCAC
CTCTCTCCCTGACCCCTGACTCCCCTGCTCTCCACCCCTCACATCCCAAA
GCTGCTCCTGCCCTCTGGGCTTTGAGGGGCAGCGGTGTGAGATCAACCCA
GATGACTGTGAGGACAACGACTGCGAAAACAATGCCACCTGCGTGGACGG
GATCAACAACACTACGTGTGTATCTG[C/T]CCGCCTAACTACACAGGTAAG
GATCTCATGACTGTATGTATGGTGGGGTGGAGGGGTGTCGCTAGAATACC
ATTTTCTTAACTTCCTCCAGGGACTCTCTTCCTCTCTCCCTGAGG

SLT_680684

TGCCTCTCTTTAGTTGATGGAGAAGTACTATATAGGTCCTTGCTACCAGA
GGTTCTTGAACCAGCAGCATCAGCATCACATGGGCGTTTGTTAGGAATGC
TAGTTCCCAGGCCCCACCCAGACTCCCTGAATCAGAAGACACATTTTAAC
AAGATCCCTGGGTGTTTTGTATGCTCATTAAGTTTGAGACTTGCTGGTA
TTGAGAGGGCTGTAGCATTTTAAAAGAAAAAGAAGGTCAATACATTTGCC
TCCCGACCTCCACTGCTTAGTCTGAGAGTGAGAATAGCTTCCCTAATTCT
TAATAAAGATCTCACCAGTAGCCTTGAAGTCCAGGCTTAAAATATTGGAT
TTATCTTGTAAGTATTGGCCAGCTATTATTGCCTTGGAGAAAGTCATAT
AGCTTAAAGTTG[C/T]TCTGCAACTACTTTTTAGAATTCAAGAGACACAC
AGATGGCTTCCTGGGCCAAGTTTAACACAGTAGCAGAAGTATACATGGTG
CTGTATTGAGCACATGCCCCCTCAAAGGCATTCTCAATGTGTTTCCTTAAA
AGACTGGTTGAACATGTAAGTTTGTACTTCCAGTGCAGCAATAGGTTATG
TATTTCAAATTTGCCAATCAAGTAAACGTGAATTGGTCAGATCTTA

SLT_683623

AAATGGGAAATATGGGACTTAGAGAAGGAAAAGGTCTTGCCCCGGTTAGT
GGCAGGGCTGGAAGTAGCCCCTAGAACTAGTGTCATTTCCCATCTCACTC
TACCTCTCTGCTCGAGGTTCTTTGGCCTGAGTAACTGTGATTGTCTCCTC
TTGGCCATTCTCCTATCTCCCTCCCCATTCTCTCCTGCCTTCCAGTGGAC
[C/G]CTTCTGTGAACACCCCCCACCCATGGTCCTACTGCAGACCAGCCC
ATGCGACCAGTACGAGTGCCAGAACGGGGCCCAGTGCATCGTGGTGCAGC
AGGAGCCACCTGCCGCTGCCACCAGGCTTCGCCGGCCCCAGATGCGAG
AAGCTCATCACTGTCAACTTCGTGGGCAAAGACTCCTACGTGGAAGTGGC
CTCCGC

FIG. 10J

259/299

SLT_687289

TAACATAAATCTTTTCTTCCATTAAAATCTTATATTAACTTAAGAATTGT
AAATACTTAGAAGCAAAACCGCCCTGCAGTGTTGAAGCAAAGATCCCCC
TCCACACACACTGTTGTCAAGGCCCTGATAAATCATCCAACAAACCCAA
TTTGAAAGCCATTGGTTAAAACCAAGTGGTTCTCAAAGCGTGGTCCCCAAG
GCAGCAGCACCAGCATCACCTACAGACATGATAGAAATACACATTTTCAG
ACTCTACCCAGAACTACTGAATCCAAAACCTAGGGGTTGGCCCCAACA
CACCTGTGCTTCAGAGATCCTTCCAGGTAATTCTAATGCACAAGTCTAGG
AAACACCAGTTTCCAAAGGAAAACCTTCCTGCAGAAAGAGCAGTCTGAGTT
GGGCCTTGAAGAAAGGGAAGAACTTGTGAGAGCAGAGAGAACAGGTGGGC
AAGGCATGCTGGGAGGTCAGCAAAGACAGA[C/T]GAGGAGCAAAGAAAA
GGGTGTTGACCAGAGCAAGAGGCTCCCAGTGGAAGGTGGATAAAGACCAG
GCAGGTTAGGACAGTTGGGCACAGTGGACACCAGAAGAAAGAGCTCACCC
TGGTGGTCTCCCTAGAGCCTGGGCCGCCTAACATCTGTGTCCCTGGAGCC
ACAGGTCCTGGCCAAGTGGAGAGGACAGAGAGCCAAGGAGGCAGGGCCAG
GGCAGCCTGTGAAGCAT

SLT_696007

AAGAACAAGCGTGTTGAGTAAATAGTGGTCCAGGCAGCATGCAGATAGAG
CAGGATTGAGAAGGTGGTCTGGGAATGGAGTTTGCTTAACCTCTATGAAAT
AATAGAAAAGAATACAAATAATGATAGCCAAATGCAATACCTGACCCTAG
ACTAAATCTTGGACTGGAAGGAAATAAATGCTGTAAAGGACAGTATTGGG
TCCAATGCAGAACTGGAATACAGATAATAGACTAGATAACAGTGTGGTAT
CCATGTAAATTCACCAAAGTTGACAACTGCACTGTGCTTATATAAGAGA
ATATCTCTGTCTTAGGAAATGCACACTGAGGTATCTAAGGATAAAGGGC
TGTAATGTATGTAACCTTACCTTTAAATGGTTCAGAAATGTGTGTGTGTAT
ACATAAAATGCACAGAGAAA[A/T]CCATAAGCACATTGGAGTAATGGGA
GAACTGGGTAAATAAGCATCTTCTGTACTGTTTTTATTTTGCACCTTAT
GTAAGTTTAAAGTTATTTCCAAATAAAAAGTAAACAAAATGTAAGCAAT
GCAGGTCAAGTCCACAGCACAGGGCCCAGCCATGGAAGGCCCTTAGTGAA
CTCTCCGGCTTTCTCCCCTTCTCTACTGGCCAGTGTGGAGACAGTGAATG
ATGGGCAGTTTCACAGTGTGGAGCTGGTGACGCTAAACCAGACCCTGAAC
CTAGTAGTGGACAAAGGAACTCCAAAGAG

SLT_697143

GGGTGACAGAGTGAGACCTTGTCTTTAAAACAACAACAAAACACAAAAA
GTAGCCATCAGTTAGGCAGACTCTGGGCCTGAAATGCAGCCCCTGCACTG
ATAGTTCTCAAGGG[C/G]TTAAGTGTAAAAAAAGCTACCAAACTGCTC
GTTCAATCCTAAGATTCCCAAGACTTTACCCAGAGTCCACCTGCAGAGAC
TAGCACGGGCCCAGAAGAGGGTGTGTTAATGGGTGGTTCAGATGTAGGG
AGGCCAGGGAAAGCTCTGTGCCGAGGGCAGCCCCAGAAGGGACACCACTT
ATCCCTGGAGGAGGACCGTGCCCTGTGCCCCACCTGCTCCAGGTGCACCC
AGAACGGAACCTGGGTGCCCTGCTTCCAGGCCAGTCCCAGGCTCTCAACTA
TAGAAGGT

FIG. 10K

260/299

SLT_703026

ACCAATGCCCTGACTTCTATGCCCTCTGCAGAGAATCCGTGCCTGGGACA
AGTAGTCCGAGAGGTGATCCGCCGCCAGAAAGGTTATGCATCATGTGCCA
CAGCCTCCAAGGTGCCCATCATGGAATGTCGTGGGGGCTGTGGGCCCCAG
TGCTGCCAGCCCACCCGCAGCAAGCGGCGGAAATACGTCTTCCAGTGCAC
[A/G]GACGGCTCCTCGTTTGTAGAAGAGGTGGAGAGACACTTAGAGTGC
GGCTGCCTCGCGTGTTCCTAAGCCCCCTGCCCGCCTGCCTGCCACCTCTCG
GACTCCAGCTTGATGGAGTTGGGACAGCCATGTGGGACCCCCTGGTGATT
CAGCATGAAGGAAATGAAGCTGGAGAGGAAGGTAAAGAAGAAGAGAATAT
TAAGTA

RS1036205

AAAAGTACAAGAGCAGACAGCCTCCAATTGGGTCAGCCCATTTCATGGGTT
TGTCCTACTCTCTTTGTTTCTCTCACTTTTCTCTACTACCCTTGC
CCTTTCTTTCTTCTTCATGGTAGTTCCCTTTTGCCTTTTGTCTCTCCCTC
TCTGTCTTTTTTTTTTTTTTAAATCCCTTTGCCTTCTCCCCTCTTTTT
TTTTTTTTTTTTTGGCATTTCCTTCTTCTCTGAGATTGT[A/G]GGGAA
ATGTTGGAGGGGACTTCTGAGGGTGACAGGGCCGGGTGCCTGGTGCAGAA
TGCAGCCACTTGGGGGAAGTAATACCAGATGTGACGCTGGTGCCAACAAT
CAGCCTGAAATGTAAACGTGAGCTGAGCTCCAGTAATAAACCCCTTACAG

RS1432910

TCAAAACAAATTCTATTAGGTGACCCGAAGGCTGAAAGGTTGACTGTGTT
TAACTGGATTATTTTACATTTTCTCAGTTTGTGCTTTATTTATACGCAGT
AAGTTTCACTCAATCCACCTG[A/G]CTTCTTACCTTTTGTCCAGCTTGA
AAAATGAAATGAGTTTGGGCTTTGGCACTATGTGTTTCATAGGCTCCTAA
TCTCTCTTTGTATGTTTTGTTGGCCAATAATACGTAAACTATGCCCCAG
GCTTTCTTGAAGTGCATGTAAATATCTGCCTCTCTCTTATCTCCCATGGT
AGTAATTCATCCAGGAACTTACTTCCAACAGGTTAGGTATTAACTCTC
CCTCACATAAATCCACATTGGATGTCTCTGATCAAATTATAATTTTCAA
GTATTCCATCACTATGTCCAGTTAAATCGTTCCTAATATTTTCCCATGAC
TGGGTGACTTTTTTAAAAAATCTTGATTGTGCTACAGAAGTGTTTTCCCA

RS1560666

GTGCTCACAATGTGCTGTACAGATGTTT[C/T]ACTGCCAGACCCTACTG
CCCCCTAATTGCTTTGTGATTCTGGCTAGTTACAGTCCCTCTAGGCAA
TACCACCTCTTTACCTATACCAAAGCACAAAATAAGGCACCTTTTGGGG
GGTAGGGAAGGGGTCTCCCTCCATACACTGTCTCCTACTTCTTTGTCCAT
CATCAAATCCTTCTCATACTCTGGCTTCCCTGTTCACTGTGTGACTCC
CATTCATCAAGTGATAAATTCAATCATTAAATTCAATATGTCCGTAGTGAG
TGATATATTATACTAAGAACTGTGCCTGTTGTATCCCTAGAGATATAGCA
ATGCACAAAACACAGTCAGTTACTGCGTCTAAGTGCTCACTAAATGTAGT
GGGTGAAATGAATGAAAAGTGAGCACAACTTAACAATCTGACTCGGTGT
ATGGTAAAATCGGAGGACTCACCAGGTGCTATGGGAACATGAAGTGATAG

FIG. 10L

261/299

CCACAAACTCTTCTTAATTAGGCAGAGAATGCTTCCTGTAGGATGGAAGA
GCTTGCTGTGGTTTGGCTCCTGGGTCTGCAGTTTACAAGCTGTTTGACTT
TGGGCAAGTCACTGTACACCTCTGTGCATTTAAAATGTGATAATGATGTA
AAAACCTTAGTACAGCACCTATCACATAGTAAATACTCATATACACATATT
CATTCACCTCCTTCTTTTCAGTAAAAATCATCTATTGAATACCTACCGTGTG
TCAGGCAATGCCCTGGAAAGTGTGGATGGTGCACCCAGGTCTTGAAATAC
TAATATTTCCAGGAAATAAACTACATCATCTCAGTCTTTTTTTTTTTTTT
TTTTCTGCATGGACTACACTTGAAGAAGTCTTTGAAGTAACAATAGTA
GAAGTTCTTTTTTGCTGTCTGTTGAAGCAGCAACTCAGAGGATTTTCCTA
GGTGTGAGGGAAAGCCCGGGCAGTGAGGAAGTAGCAAGTGAAGCTGTGCC
CAAGTTGCACGTTTAGGGTTTTCATCTCACCAGCAGCTCCAGCCTACAGG
AGTACCCCTCCCAACCCCATCCCTGTCTCAAATTAAGGTCTGCTTCAC
ATAGCAGGGCACAAACAGGAATGCATTGTCGTCTTCTGTTGCTGTCACAAG
TGGTCTGAAAACCTTTAAGCTGTGCAATCCCCACTGCTGCTGAATACTT
GAAGTTCTTCTATGAAACCTTAGCATGACCCCGCATCTCTGGTGCTGCTT
CATCTCGCAGAAACCTGTGAACCATGGAGGAGTTCTTCTCATCCCGTGAT
GGACAGAAGGCTGCTTCTTCAGAGAGAGAAGTATGAGCAGTGGGAAGCTA
AGGAAGCTTACACTGTTGTTGATGATCAAAAAATGCAGCAATAAGCACTA
TCCTTCTCCAGGCCCAGAAACAGAGCTGGGGTCTACAGGCCAGTTGAATT
AAAAAGGGGAAGCCCCACTGTTAGAGACATTCTCTTTCTACAACCCTGCC
CTTTTCTTTTTCTTCTTTTTTTCTTGAGATATAGGTAACATAAGATTC
ACCATCTTAAATATATCATTCAGTGCTTTTTAGTCTATGCCTTTTTTGG
GGGACCATCACCACTG

RS172472

TTGCATGACCAGTGAGGACTAGTGATGTGTGGTAGTCCATCGTTGCCTTG
CAAGGAGGGAGGCGATGCTTCCATGGATTGTGGGTCTGAACTTACTTCAG
GGAAATTCCCTGAGGTGGGGTTTGAGATAGGTTTATTCACACGAGACTGT
CAGTGGTCTCAGAAGGCAACGGTTTGGACCGAACA[C/T]GGCAACCTCA
TCACCTTGCTGGTTGAAGCAGCTCCTGCCTTTTTCCCACTTCCTAGCGCT
GCCAGTCTAGGAACCCTGGGTCTGGGGGTTTATGATTTTGTGGGAAAAGG
AAGAAATGTGTTGAATTTTGCTTTATTCTCTTCAGAGGTCCAGGGTAAAA
TGAGGAGAGGGGAGAGTTGGAGATACTTCTATTTATTAGTGGGAGAATT
TGGAAGCCCAGGAGCTGGAGTTGCAGGTGAGGGTGGAGACTGTGATTCAT
GTATTGTAGATGTCAGGCAAGTGCTAATTAAATTATCGACAGTGAACCTG
AAATCATGCTGGCAGTGACTCAGTTCATGGGGTGTACTGAATTGCCTAAG
GTACACCTTTCTGAATGAAGCGACACAGTCC

RS182435

TGAGCGGTGCTGACTGCTGGAGAGAGAGCAAGGTCCATATGGCTTCCTTA
TGGGGGACGTGGAAGTCACCAGCCCTGCTGCAGCCAAACATGGAGACATAG
TCATGGCTCTCACCTGCAGGAGCAGCTCTTAGGCTTTGGGGTAGCCTG
GGGCCAGATTCTGTTGCCCTGAGCTTCAGAAACAGGCGAAGGAAAGAAAG
[G/T]TGGTGTGTAGGAAAGGCCTGCAGATATTACCAGCTTGTCTGTGGA
AGCCACAGACATCTCAGGGTGAAAACAGAGACCAAAAAGTACCTCTTGCAA

FIG. 10M

262/299

AATAGTCATTAGGCTGTGAACATAGGAAGACGAGAAGATATAGTGGAAT
AATAGTCAATAACACAACCACGAAGCAGCAACTATTATTTGTTGAACGCT
TACAA

RS188431

TAACCCCGCTCCCCTGCCGTGTCCAAGTCCAATTCCAAGTGTCTTATAA
CCACAGTTTGATGCTGCTGGCTCCTCCCCAGCTCCACCTTTGCCTGTGA
GTATATGTATCTTTCAAAAGTCATCTCTTATTTCCAGTAACTCCAAATAC
AAGCCGCCTTTTAGTGACAAGCAGATGAGCGTGAGCTGCAGTCGCCTGGA
[G/T]TGTGCAATGCTGTCACCAGAGAGAAGTCTAGTAATTACATTTGCCA
GGCTCACCGTCCATGTTGGCTGGCAACATGAAGGGATCAGAGAATTCTTT
GAAACAATATCCAAGTTCTTGGTTAAAAGAGATACAGGCTGGGCGCGGTG
GCTCACACCTGTAATCCCAACACTTTGGGAGGCCGAGACAGGTGGATCAC
TTGAG

RS188432

TTTCCCTACGTATGTACTTTATTGTTGTTGCTTCAAGAAAAATACATGCA
AAAATCCTGGCATCAACAGATCCCCTCTTTCCTCCCCTTCTTACCCTAGT
CACGATTACTTAGACTTTCTTGTAAGAATAAGAAAAGATGACTAAAATGTC
AAACCC[A/C]ACCATCATCCCAAAATGTCTGGTCCAAAATTAGAACAAG
GAGAAGACAATCAATCACTCCCAGGTTACGAATCATGACCCAGCCATAAG
CAGAGTCTCTCGGTGATGTATTATGTTTATATCTGACTCTCCTTCTTGAC
AGTTGGCCTTCTGTGATCAGTTTCTGCATTGTAAACTACTCCAGATGT
GAGAACAGCTCAATAGCAGAGCTCTCAGCCTAATTAATTCAATCACAGGA
TGGTGATTAAGAGGTGAGCGGTGACATTTCCAGAGTGCACCTTCTGTCTT
CCCAGAGTTAGCTTGTCTTAAGGCTCCAAAGCCCTCAGGTGGCTCTGGA
GCCACAGGAGCCCTTGGGGGCCTTGTCCCA

RS1982063

ACTGGTAGAAACACAAAGTAGGGCTCCCAGGGAGTTGGCTTTGTGATGGT
CCAGCTGAGAAATAGTGAGAGCTGGAACCTAAGGCAGTGGTGATGGTTATC
TGAATAATTAATAATTACTGTCTACTCACTCCCGAAAAACTGCAGTCCCT
CTAATTGAAGATATATGTTCTCTCTTAGAGAAATGAGCCCCTTCTCAGGA
CCTCATACCCACACCTTTCCCCACAGTTGGATAGACAGACGCATCCGTCC
TGCTCTGGGAACCATAGCTTATAGTTTTTTGGCTATCCTGAATTCCAAGT
CACCGCTCCCAAGAGAAAAGCAGTGTTATCACTGAGAACCCTGTTGGATG
AAAACATGCCCTCAGTAGATCACTTTCTGAGTAGTGCACACCTTTCCCA
CAGTTGGATAGATA[A/G]ACACATCCATCCTGCTCTGGGAACCATAGCT
TGTAGTTTTTTGGCTATCCTGAATTCGAGGCACCGCTCCCAAGAGAAAA
GCAGTGTTATCACTGAGAACCCTGTGGATGAAAACATGCCTTCCGTAGAT
CACTTTCTGAGTGGTGAGATGCTGAAACAAACAGTGGAGAT

FIG. 10N

263/299

RS2163783

ACTGGATTAAGCAGCTAACCTGCATTATTTTGCTTAACTCGGTCAGTGTT
TCATACAGCAGATAGTAGCGCTATTCTCATTTGATAGACGCAGAAAGTGA
GCCTCAGAGAGGTTAGATAAGTGGCCCAGGCTCCTCCGTGAGTAGGTAAT
GGCCGGGGTTCATCCCAGGTCTGACTGAAGAGTCCATATTCTTTACATCT
TTGCCTCACTGCCTCTTCATGTAAGCTCTGGACCTGCCATCATAAGACAA
ATGGGAAGAGGTGTCCTACCTTCCTAAAGGCATTTTCCAAAGTGATTTCT
GAAGATATCTGATATGGGCAACTTTCCAGAATTAGTTCAGTTGTTAAAGG
TTTCACGGATGAATAAATGGTGTGGGGGATGGGGGTTGAGAAGAGGTGAG
AAGGAGAGACAGCGTGGAGAATGATTTCCAAGGCTGGATCTTTTCTTTAT
TTGATTCTAGTAAATTTTAACGAGGCCCTTAATAAAATCCCAGTGCTTAG
CAGAGCCTCCACATTTACAAGTTGCCAGACCTGGGGC[A/G]GAAGAAGG
GAAGTTGGAATCCTGGCGCTCAGCTTAGTCCTGCTGACCTTTCACAGTTC
AGGCGAGCCAGGCTTGTAAAGATTGA

RS2668054

GAGGGGTGGTTCATGAGAATGACCATATCGAAGAGTCCTTGAGAACATAG
ACTTTGGAATTATGCAGATCTAGGTTATAATCCTGGCCCTACCATGTACT
AGGTGTGTAAATTTGGCCATTTAATACCTCTCTAACTTTAGCCTCTGTAT
TGCTAAATGGGAAAAATATAGTATGTTCCATGTAGTGAGTAGTTAGGAGA
[A/G]AGGAAAGAGATTTTCATGATAAATTACCAAGGAATGGGGGCTGGGC
TTATAAGAAAGGGTCTGGCATCAATCCTGTGAACAAAACACTAGGATTAG
ACCCATCACCTCTAAAGCAGGAAGAAGGAAGTTAGCTGGGATATGGGTGG
TGGGCCAGTGATTGCAGAGGCCCATCAAGTAAACCAAGACTATAATAGGG
AAAT

RS295981

ATTAGCCTGTTTCTCCCTCAGACCTCAACCTTTTGTTGAGGGGAAGAAAC
ACTTGTGGTAGAAGGAAACATAATTAATGGAAGGATCATGTGCATGGACT
ATCATCTTATCAGTGATGATAATAGGCCTGGTTGCCTAGATCTTTCCAGT
CAGCCGCCATGTTCTGTCAGCATAGCTTTCATAATGTCCTCTTCCTGTCA
TTAACAATGTCTTTGGGTTTCTGGGTTTCTGTCCTCAAATTCATCCTGA
ACACCATAACTAGGTCGTTTCATCCTGGAGAGATATCTTGGTACTTTGCCT
CCCAATGTTTAAAGGCTCCCTATTGCCAATGATGAAGTCCTAACA[C/T]
TGTATCCTGACATCTGCATCCCTACACAGTATGATCTCCGCTCATGTTA
TGATCTTCTGTCCCACTCTTCTTCCGTGGGAACCAGACCATTGAGCTCTT
GGGCCTTCAGACACCTGTCTGCTCACCTCTCTGCTCAGAGTTCTTTGCC
GGACTGCCCTGCAGTAATGATTTTTTTGCCCTGCAATAATTATTGCAATA
ATAAATACAATAATAAATGCAAAAATAATAAAAATAATCCAAACAATAAT
TATTGCCCTGCAATAATTATCTCTCCATATCCTCATCTCTCACAGAGA

RS295985

GCTCTTATACAGCCCACTCCAGCATAGCTAAAATTTAGGTAAACACTTTC
CTCACTCTGAGTTTTAGAAAGCAAGTGTTTCTTAACAAAATGCCTTCAACT

FIG. 100

264/299

TCACGATATTTTCGAATACAGCTTTTATTCCAGGATTTAGAGACACAGAC
ACCACAGCACCAAAACACACCAGCAGAGAAAGCTCCAGGTCCTCACTCAG
[C/T]CCTGATGCAGACACTTTATTTCCCTACGTATGTACTTTATTGTTG
TTGCTTCAAGAAAAATACATGCAAAAATCCTGGCATCAACAGATCCCCCTC
TTTCCTCCCCTTCTTACCCTAGTCACGATTACTTAGACTTTCTTGTAAGAA
TAAGAAAAGATGACTAAAATGTCAAACCCAACCATCATCCCAAAATGTCT
GGTCC

RS295994

CAAAATACGAGAAAAAATCACCAAAGCTCATGACCAGGAGAAGATGATAA
GGCTGGAGGCTTGCCCCAAGGTGGAATGAACGCCTGTGCTCAGTTTCCAA
GGAGAAAGCTGACCTGCCAATCCATTTGTTGACCCAAAGTTCATCAATGC
ATTCAATGGTTCTTTGACTTAAGATTAAATAGGACCCCTGTGTGAAATTG
[G/C]CTGTTAGTTTTTAAAGCCTTTTCATTTTGACAGGTGAAAACCTCA
TCAGAATTACCCTATGCAAAGATGTCAGGAAAAATATACAAGAGGAAATT
GGAAAATGTGATTGAGCTGAGCGTACGCTTCCTCTGCCCTGGAGTTCTGC
GTGGGCTTATTATTTCTTGCCCCTTTGCTCTTCAGGCATTTTCCATCAC
TGAGG

RS295997

GCTTGTGATGAGGGTCTGTACCAAAGGCATGAAAGGGGAGGAGAGATGAG
GGAActCAATGGACATTTCTGTCAAGTGAACCCTTCCTTAGTATCTCCAA
TGCAAAGTGAGTCATTTTGATGTGGCCATCTTGCTATAATCATTCCAGTG
CCAAAATTGTATCAACATGCAAAACACTCTTTAAAAAAATCACCAAGTATT
GAGTCTAACCCTCATCATCCCTGATGCTTCACCATCTCCGACATCCTCCT
CAATCTTTGTCTCAGTTCTGAGCTTCCCCATCCCTGATGCTACTGTACAT
ACTGCATCCCCTCCCTGTCTCCCTGTAGCATGCAAAGGCATCCCATCTTG
CTAGGCATCACAAACAGATACTGATAATTTACTAACTTCATTTCTAGGTCA
CATCAAAATGACCCTGTGTCAAAGCAGTGGGCCAAATATCACCCATCCTT
ATGTTGAACTTCAAAAAAGCAAAAGTCCTTCAGTTTTTGCAGACAAACCT
GCAAAAGAGAGAG[A/C]GCTGGGGAGACAGTAGTACCCTGTAGAATCTT
TAGCCAAATGCAGCTTTGCTTA

RS295998

TACACACACGTGTGTGATTTGGGTGTGGGGTGTCCCTCGTTAAAAGGGATG
ACGTTCTTTTATAGAAAGACACTTGGTCATTTGGCTCCATAGAAAGGGA
AGTTCTTCTGAGTAATTTCGTGACTGAATAATTAACCTCTAAGGCATGAA
ACCCCATGTGTGAGAAGAAGCCTGCTTTCCAAAAAAATCAAGCC[A/G]
GGGCCAGGGATACCCATTGGGAAGGCCAGGCAGCTTGCCTGGGGTCAG
AGTTTCTCTTTGCTCTGGGCATCCTTTCTGACAGGTTTTCCCAAATGGG
GAAAAAGCACTTGTCAAGTATATTTTAAAAATTTTTTAAAAGAACATTTT
GAATAGCCCCTGCTTCAGGCTCCCTGGGGGTTCCCTACTTATATTTTAA
AAGCTCAGGCCTTGGCAGGTCTCAGCTTTTCAGTTGGCATGAAACGGACT
GAAAATGCACT

FIG. 10P

265/299

RS296001

TTCTTGGGCCCCAAGGGGATTCCATGTTACCATTCCTTCCTAGGCTCTTCT
AGCTTTGGACTGGATCCCTCATTCTGCTGGCTCTGCTGCAGGCTTGAACC
TACCTGTTTGTATAGACCACACACTCTACTCTGTTTTTCACTTACCCCC
AGCATTAGCAGTGCCAGAGAGAGGCTTGGCAGGGTGATGAGATAAGTGTA
[G/C]GTGAAGCAGAACAAGGCGTTCCAAGCTAAAGGCCAGTCCTCTCTC
TGACATCTGCTCCCCAGGAAAGAAGCTGCTTTCTGGCTCATGGTCAGTCT
GCTTTCGTTCAAGATAAGCCCAGCAAGTGGGCCTGGACCTGCCTCTTCCAG
CTGGCAGATGCCCTCCTTGCCTTCGGGGCACACCTTAGATGTTATCTTTT
CCTTG

RS296008

AGATACCTGTGGGCTGGGAGTCTGGCCAACACTTGTCAAAAGCTTTAAAG
AGAAATCATTCTGAGATCCAAACAATGGATTACCAACACACTTTCAGAA
CTTACA[A/G]TAGTGGTTGCCAGTTCCTGGGTTCTGATCCTTGCTGCTT
GCCATCTTGCAAGTCATTTATATTTTGTTCATATGTAAAATGGGGTGGTT
AGCCTATGTAACCCTATACGCTCTTAAAAAACAAAAAGAGGTATTTGTGC
CCCTTGGCCTTGACTGTTCTCACAGGGGCCACGAGAGCTTCTGAAGGACA
CGTTGGGGCTGTGAGGAAAGGCCGTTGGCTTTAGGGGAGGGTTGCCATTT
CTGCTGAGGAGGCTAGCTGTAGGGAAAATGAGGGCCTCTGAAAAGTGATT
TGGGGAGCCCTCATGGAGTAAAGGGTGCTGCTGACTCTTGCCGCTGCAGG
CTGGTGCTCTGTGGCTGAGTCAGATGGAGGTCAAAGACACCAACGTTGGA
CCAACCTTGAAAGGTGGCAAGATGGGGCTGCCTAGCAACACCCATGTCAT
TTCTGCCTGTGGTTTGCACGAGATCCACCC

RS297818

GACTCCCAACCCGTTGTGCTAGAATGGGACCTTGGGAAGGAAAGCTTTCT
CCGAGGGAATTGAATTAGCCGGAATATTTAAGATCCCATTTTCCCTCCC
ATTGGCTTGTATTTACTGGTCTTGATGGGGAGTCCGAGGATGGTACTTAG
AGGCCCTGCAATGGAAATTCTAAACAATTGACCAGACTTTCGAATGTGT
[G/C]GTTATGTTTAGATGTCTTGGGTTGCTTTCCCCTGACTTTGAAAAG
GAGCAGACAAAACATGTTGATTGCGAACATCCTTCCAGAACATAAATCA
CTGGGGTGAGTGTGGGGTTGGAGTCTGTCATAGCTCACTGGGAGATGGGC
CCTGCTGCTCTTTTTCATGGTCTCCCCTTGCCTCTGCCCTCTGCCCCA
TGGAC

RS297823

GACTGTAGGAAGGGGCTGACCCGTGCTTAGAGTGAAGGGCCCAGGAGGAT
GTGAGGGATTTGGGTTCTGTTGACCTACGGTGTAGGAGAAATGCTTGAAG
AGATGGGGAGGAGCTCCACAGGAAATTCTCATGTTTGTGCCAGTCTTTG
TTGCCAGAAATCTCAACAGAACATGAAAGTTCAGATCCCCAGAGTGGACA
[A/G]GCTAGGAAATTCTCAGGTAGAGTTCGAAGAGAGATGTGTGTACCT
TCCTTCAGGAGGAGTAAGGGGAAACGGGGGCAAACCTGGGGCAAATTATGG
AGAAGTTCCTTGATTGCTGGCATAT

FIG. 10Q

266/299

RS297825

CTGCAGACACCGAGGTGTTGACGGTGGTTGGAACAGTCTTGCTTTGTCTG
AGTAGGAATGCAGCCTCCAAAAGCTGACTGTTGATAGGGAAGACTTCAGT
GTATTGTCCTTTTGTAAAGGAAAATATGTGGATGTGCTTGGCAAATTGGT
CCCTATCTGACTCGCAGACACAGGGTTGATTGGCTCAAACACTAGCTGCT
GACGCGAGGTTACCAAAAAGCTGCAACTTATTGTGCACACTGTCATTACTT
TAACCAGGTCTTGGTGAAGCTGGTAAGCCAAAGTACTGTCTTCAACTTT
GTCATCCTATCTGATTCTTAGAGCTG[A/G]TTTTTAGATGATTCCTTCT
GTTGATGTTCTGAGGAAAGCATTCTTTTTACCATGAGATGTAGTCCAAA
GATGGCTTGGTCTGAGATTGCTTTGAAGGTTAATTTGGAAAAGCCTCGAT
GAGCTTATAACATTCAAGAAGAAGCATTCTGCTGATCATGCTTATTTTCTT
TGATCCTTGTCTCAGTTTGCTACATATTTCAAAGTAAAGTTTGAATTC
CTGAATGTCCACACCACCAAGGTAATAACTAACATTTATAGTGCATTTT
AAAAGTACCAAGCATTGTGCTAGCCTTTATATTCATTACAAATTTACATT
CATCACAAATTTAATTCCT

RS297835

TAAATTGCTACCTCCTTCATTAAGGGGCAATTAATTTTGTGCCTTGGT
TAAAACGGCGGTAATTATAAGGTGAAGACAAAAAGCCCATGGTTAAACA
TAATCAGGCTGGATGTAAAAGGTGCTCCCTGGCAGATTAAAGGAAGGTGGG
AGGGAAGGAGCATGCATCGTCCAGGCAGGCAACATTTTCCGTCTTGCTA
[C/T]TTCTTTTCTCAATTCGTAAGTCTGTTGCAGGGTAGGGCTTAGGA
CAAAGCCCGTCTTTTTCTGCCCAGGTTGCAGGACTTTGCGTCTTGCGGGT
CTTGGGTTTTGAGGTCTTGCCATTGGGCATTCTCCTGCCATAGAAGTCA
GCCCCAAGGCCTGGACTGAGCTCAGTGGCCAGGGCCTTGGGTGGTGGAC
ATGGC

RS297863

GCTCTTCATCTAGCAGGTTAGGAGCCGGCACCTAGAGATTGGAGGCAACT
AGGATGCTGCTGTTGCTTACAACACCTCTGTGCGAGTTAGAAAAAGGTGA
TCCCCCCCCCACTCTGGGCTGACCTGCTCTGGGATCACAGGGCTTGGGA
TGAATCCTAAGTGAATGCCTCTTAAGCAGGCTCCCTAGTGCTTTGGTGGA
[A/G]GGAGAGGAGCATAGAGCTGAGTGGTCCCCAGTCTGTTGTCCCAGC
AGGGTCTCTGGCCACTGGCCATATGCCAGCAATCAAGGAACTTCTCCATA
ATTTGCCCCAATTTGCCCCCATTTCCCCTTGTTCCCTCCTGAAGGATGCAT
GCAGCTCAGACTTCAGCCATCAGCCATCAGAGCATCCCTGACAGTTTGAG
GCCTT

RS297868

ATTAGATGGTGGCGCTGATAACCCAAATTGCCTAACCCATTAACCTTTC
TGTGTACTAGGAGTGGGAAGAGGGGAAACCGCAGATTTGAAGCCACACTA
CCATATCCCACCTCCACCACATAGGTCCATAATTTGTTTTTCTAAGCCT
CAGTATTCAGTGCCTAAATGGATATAGCAACAGCCAGAGTTGTGGAGACA
GTCAAGGATAATGGTGTATTGTAAGTATCAGTCTATTCTCTGACTCATAT

FIG. 10R

267/299

TAAGGGCTCATCTGGCCCTTCTTCATTTTGTTCCTTCTTCCCATGACTAA
GACACAGACCCAAGCTTTCCATCATTGCC[A/G]TCATTGTTTCATTGTCT
ATGGTATTCTCAGAGCTCTGCAGGAAGTGGGATCCACAGACCCACCTTC
TGCCTTTGAAGTATTTGCCATCTAAAATGAACATACATTTATGGAACACA
CAGTCAGGAGCCAAGAACAGCCAAACAGTTGTGAAAAGAGCAAAGGGTAT
TTTCATCATATGCATGTCAAAGGGAGTTGCATTTTAGAGGAAGATTTTTT
TTTTAA

RS297898

TTGCATGACCAGTGAGGACTAGTGATGTGTGGTAGTCCATCGTTGCCTTG
CAAGGAGGGAGGCGATGCTTCCATGGATTGTGGGTCTGAACTTACTTCAG
G[G/T]AAATTCCCTGAGGTGGGGTTTGAGATAGGTTTATTCACACGAGA
CTGTCAGTGGTCTCAGAAGGCAACGGTTTGGACCGAACACGGCAACCTCA
TCACCTTGCTGGTTGAAGCAGCTCCTGCCTTTTTCCCACTTCCTAGCGCT
GCCAGTCTAGGAACCTTGGGTCTGGGGGTTTATGATTTTGTGGGAAAAGG
AAGAAATGTGTTGAATTTTGTCTTATTCTCTTCAGAGGTCCAGGGTAAAA
TGAGGAGAGGGGAGAGTTGGAGATACTTCTATTTATTCAGTGGGAGAATT
TGGAAGCCCAGGAGCTGGAGTTGCAGGTGAGGGTGGAGACTGTGATTCAT
GTATTGTAGATGTCAGGCAAGTGCTAATTAAATTATCGACAGTGAACCTG
AAATCATGCTGGCAGTGACTCAGTTTCATGGGGTGTACTGAATTGCCTAAG
GTACACCTTTCTGAATGAAGCGACACAGTCC

RS891958

ATCTACGGAAGGCATGTTTTTCATCCACAGGGTTCTCAGTGATAAACTGC
TTTTCTCTTGGGAGCGGTGCCTCGGAATTCAGGATAGCCAAAAAACTACA
AGCTATGGTTCCCAGAGCAGGATGGATGTGTCTATCTATCCAAGTGTGGG
GAAAGGTGTGCACTACTCAGAAAGTGATCTACTGAGGGCATGTTTTCATC
CAACAGGGTTCTCAGTGATAAACTGCTTTTCTCTTGGGAGCGGTGACTT
GGAATTCAGGATAGCCAAAAAACTATAAGCTATGGTTCCCAGAGCAGGAC
GGATGCGTCTGTCTATCCAAGTGTGGGGAAAGGTGTGGGTATGAGGTCCT
GAGAAGGGGCTCATTTCTCTAAGAGAGAACATATATCTTCAATTAGAGGG
ACTGCAGTTTTTTCGG[A/G]AGTGAGTAGACAGTAATTATTAATTATTCA
GATAACCATCACCACTGCCTTAGTCCAGCTCTCACTATTTCT

SLT_596643

TCGGTAGACACAGGAAGGCAGGTCTCTCTCTTTTTCTGTTCTGCAGCAGG
AGCTCAAGGCTGCAAGGATGAGTGATGGGAGCTTTGCAGCCCATCCCCTG
CAGGTGCAACCCTTGCCCCGAGGTAATTACCAGGATTAGTGAATCAACC
AGGCTCTCTTCTGTTTGCAGCCTCCTCAATGCCAACAAGATCAACTGCCT
GC[A/G]GGTGAACACGTTTCAGGACCTGCAGAACCTCAACTTGCTCTCC
CTGTATGACAACAAGCTGCAGACCATCAGCAAGGGGCTCTTCGCCCTCT
GCAGTCCATCCAGACACTGTGAGTACACTGCCTCGGGTGCCAGTGGGTGC
CCAAGCAGCAGGAGACCCCAAATGCCCATCATGAAAAACACCCAAATGAG
GGCAGCACGAGCA

FIG. 10S

268/299

SLT_317099

ACTCCAGAACCATATCCAGAAAGGTCTCTTCTAAACATCCCTCCCTGATT
TGGGTCGTGCTTATTAGCGAAAGAGAATGAGCTTGCTTCCTGAGTCTTCC
TATACTTTGCCCTGACCCACACTTCCATTTCAGACCTGGTCTCTGAAAAAT
TACTAGCCCCAATTATAATGAACAGTTTCCCATGAGAAGTAATTTAATT
TTGCAAATTGTTGTCCAAGTCATAAGGGTTGGAGGTGTCTGGAGACTTTG
GGAGC[A/G]GCAGTTGTTCTCTAATCCTGTGGCCCTGTGGGGATACTGT
GTACATCAGGGTAGGAATTTCTTCAAGCTGAACCAATGTCTCCTCTTTCT
GCCTTTTTCTTATTTTGTCTCTTTCTTGCATCACTGCTATTCTTCCTTA
AAGACAGGCAAGGGGTTGGTGGATTCCAGGCTGTTACCACCCCGCTTCTG
GAGGATGTGGTGCGTGTGACAGCTTGGGCAAGGCACAGAGCCCAGGCTGT
GTGTGTCACACTCCGTTCCACCGACAAACACTGCTGCTCGCCTCCCTGT
CCAAATCTGATACCACGTATGTTCTCCCGATCCTGTGCTGTTGCTCTGGA
AACCAAGGAAGCAGCAGGATCTGGAGTAGGTTTCATGGCCGAGTCAACCTT
AAAAGTCTCCAGACGTTTCAGCAACTTCCGGCAGGAAAAATGTACCTGC
ACCCCTGCCAGTGAGAAGTTTTTACTGATAGCTCTCTCCCGTGAAAA
AGTTGCC

SLT_605050

ACCGTTGCTGGCAGCAGCCATCCTGGACCTGGTGCTGGCCTCTGATCCCA
ACCCAGCCAAGTCCATTCAAACATGGGAGCTTGGCTCCCTACCTGTCCCA
CACCCCTGGTCATCCAAATGTGACAAGTGTTCCTCCTGGGAAGTGGCTGT
AGGACAGGGATGTATAATAAAATTGTGTTGCTGTAATTTCCACCTCC[G/
T]ACCCCCACCCCCCGTCTATTAAAGCTTGTCTGTGATCACGTACCAAG
TGTCGTTGTTCTGAGCTGCCCCGCGAAAGGGGAGGAGGGCTCCAGGGGCAG
GAGCAGGCAAGATGCCAGATGACATCAGCTCTTCCAAGGCTGGTTTCAGC
CGAGGTTGAGTTTTATGGCCCTTCTTCAAATCCTCTGGGATCTCTTCTGT
CTGAACTCACCCCAAAGAGAAGAAGCAACAGCCTATTGCAAGTCGGTCCCTC
TATTACTAAGTATTTCTGGCAGTGACAAATATGCACTGAGATTGAAATTG
ACTTTTAAAGCTCTGGAAAAGTTAAAAATACTTTGGGGTAGTTATGAGCA
TTAGGCATAACAAATGGCTCTGAGAAACCCTGAGTAGTTTCGGTAATGAA
ATATGAAGTGATGGAGATGGCATTTCGGGCTGGCTCTGACTGGGGAACGA
ACTTTTTCGGTTATGTACATACGCCGTTATTAACATTTCTGGCTCCCACT
CGTATAAAATATCACATTCCGACCCCTTGTTATTACAAACCAGGGGCAAT
AACAAAAACAGCAGGGGGGAAAAATGCTGGAAAGAACACATTAGTCCATCG
AATCTAATTGCAAAATCATTTCATTAAAAATGGGTCAGCGGCTCCATTGCA
GAGGTCCACCAGTTATAATCTAACTATACTACTGAGAGCGATTCTCTGCTA
ACTACAGGCTGCTCTCACTTGATGTAAAATGAAA

SLT_608499

CTCCAGGCTCCGAGGATTACCGCAGCAGGTTTCAGCAGCGAGTGCTTCAT
GGACCTCGTGTGCCCCGAGAAGTGTGCTGTGAGGGCACGATTGTGGACT
GCTCCAACCAGAAGCTGGTCCGCATCCCAAGCCACCTCCCTGAATATGTC
ACCGACCTGTAAAGTCCAACCTCGGCGTGAACCTCCCTACTCCTCCCCACAC
[A/G]CCAGTCACCCGGAGCCAGCGTGGGCAGGGTCTCCTGGCGGTGACC

FIG. 10T

269/299

CCTTCCTGGCTCAGTCATGTGGTGTGTTGGCTGTCTTTCACATACTGG
TCTGAAGGTAGATACCCAGGCATCTCCTGTGGACAGCTTGCTTGCAAATA
AAGACAGTTCATTCCTTCATTCTACACATATTTTCTGAACACCTACTGTG
AGCCGG

SLT_612136

ACTACTGTGAGTACTGGTTGAGTATCCCTTATCTGAAATGCATGGGATCA
GGAGTGTTCAGATTCCAGATTTTTTTGGATTTTGGAAATGTTTACATGTA
CACAATGAGATGTCATGAGGCTGGGATGCAAGTCTAAACACGAAATTAC
TTGTGTTTCATGTACACCATATACACAGCCTGAAGGTAGCTATGTGATAT
TTTTAATAATTTTATGCATGAAACAAAGTTCAAGTACATTGAACCTTCAG
AAAGCAAAGGTGTGAGGTGTGGAATTTTCTACTTGTGGCATCATATCAGC
ACTCAGAAAGTTTCGGACATTCTGGTTAGGG[A/G]TGCTTACTTATAAT
GAGAGTGGACTGTACCACCTCGTTTTTTTCTCATTACCCATGCTCCACC
CATCAGTTCCCTGTAGACAAATATGACAGAGGCCTTCTAGGCCCTGGGCA
GCATCTGGATCTCACTGGTGCTACTCAGATCGCTTTCCTCCCTCCGTCCT
TGCTGCAGCCACCACCTTGGTCATGGCTCCAGCGAATGCTGTGTAACCG
GGTGCAGTGGAGAGCACGTTGGGGGGC

SLT_616823

CTCCTCTTAAATCAGTGCTAGTGAGATCTCTAATAAGACAGAAAATAGTT
TGAGAGTCACTTTTTAACTCTGTCACTCCCCAGAGCATTGAAAAGACAA
TTACACAGAAAAAACTTCAAATCCCATCCAGCCTGTTTTTaaattgat
acataacaattatacatatttatgggacacgtgataatttgatacatgca
tgcaatgtacagtgatcaaacaggatatttaggatatccgtcacttctaa
catctatcatttcttgtgtggaggtatttcaaatctttcttctagct
atttgaaatacatattgttgaactatagtcaccctactgtgactgtc
accctatctaactagaacttattccttttagctccccattaaccaac
ctctctcatctccctcaaaccctccagcctctgtaaccatccttcta
ctgtctccctccatgagatcaacttttttagctcccatatgagtagga
gcgtatgatattgcoftgctgtgcctggctcatttcacttaacacagtg
acctccagtgccattcatgttgctgcaaatgacaggttttcattctttt
atggccaaatagcttccattgtgtatatatacaccacatttcttgatc
cattcatccactgaCCATACAGTCTGTTTCACAAAGGTAGCTTCACCTGT
ATAGGGCCAGGGTCCCTGCTCCCTGGGCCAGATGCTGAAGACCAA[A/G]
GTTCAAGGAGCCCCAGACTGAGCTCCTTCCACCATCCAGTCCTCAGTCTC
AGGGGCCCCAGAGAGTCCCCAGCAG

SLT_617406

GGAGTCAGAGTCATCAGACATTCTGGAGCCTTGGATGGGAAAGAATTTAG
CATGCTGAACACCTCCAGCATGCACACTCACACACACACACCACACACAC
ACCCAACATAGTCACCCACTCTCGTGTATACACGTATATAGATTTATACC
AG[A/G]AACTTGCTGAAGGAGGCACACAAACAGACATTTACCCACAAAC
ATAAGCATAAGGACCTTTATAAAAATGATATATGCAGACACGTGCAACAT

FIG. 10U

270/299

GCACATAAACATATATACAAACAGGCACAGACACACAAGCACACACATAC
ATACAAGCTGATGTCTACAACCACGTCTTGATTCTCTCTCTCTCTCCAG
AAATATGTGTGCACACCCTAGCAGCCACACAATATGCGTGTGTATACACA
CATATGCATGACATGTGCTTCCAAGAAAGCATGCACAAACAATAATGTAC
ATACACATTTACACACAGCCCCAGTGGGGCTCCAGTCCCTGCTATCACAG
GACAAACCTGATCAACATGGCTGGACTGAGCTTAGAATTGGCAAAAGCAT
CTCACCTATACACACACACACCACCGTGGCACCATTGTTGGGACAGAAAA
GATCATGCCTGTGCTCTCTCATCCCCACCCCTCTACCTGTAAGATGCTGA
GGATGTAACCTGATCGG

SLT_169267

CTCTCACTTTCTGCTATCCAACCTGAATCTCATTCTTTTTTGTGTTTGAGAT
GGCGTTTCACTCTTGTTGGCCCATGCTGGAGTGCAAAGACGCGATCTTGGC
TCACTGCAACCCTCGCCTCCGGGTTCAAGCGATTATCCTGCCTCAACCTC
CCCAAGTAGCTGGGATTATAGGCATGTGCCACCACACCCAGCTAATTTTG
TATTTTATAGTAGAGACGGGGTTTCATCATGTTAGTCAGCCTGGTCTCGAA
CTCCCGACCTCAAGGTATCCACCCCTCTGCGCCTTTCAAAGTGCTGGGAT
TACAGGCTGAATCTCGTTCTTTAAAATTCATTGCTCATCTCTCCACCTCT
AGGAAGCCCTCCCTGACTATGCTGGTCTTATTTATTAGAAAGACTTCTTC
TAGCTCTAGCTTCCCCAGCAAATATTATTGAGCATCAGCCATACTCCAA
CTCCGAGAC[C/T]GGTGCTTTAACTGCCTTCCCCACCATGCTATGAGCT
ACTTGTGAGCGGGGAATTGTATTTTATTTTATTAGCAGGGTTTAGTA
CAGCGCTAAAATATTTTAAATGGAAAAAATGCATGAATGGGAAGTTGTG
CTGTAAGAGCAGATGTCAATTTTATGGAATTCATTACCTCAGAGGTATTT
GAGGCGGAGGATGTGAACATCAGCTTCCCAAATGTCTAGATGTGCGTTTC
CCAAAGCGATTCATTTTAATGGGTGTTTCAGCAACAAAA

SLT_575368

AGGAAAGATCATCCTTTCCCTCTTTCTCCAAGGAGAGTTAGACCCCTTGA
CAGGTGCTCCATGTACTAGGACCTGAGTTCTCTGACTGCTGCAGTGTGTT
GTCTGGTCTGCCACAACCAGACCGTGCACCTGTGACAAAAAAGACCTCCC
TGTCCTTAAGGCCAGAGAACACAGTAGCCCTCAGTGACCACTTGTGACA
[C/G]GTGGATGGTTAATTCATCTTCTCTGCTCTGTTTCCCAGACGCCT
AGAACAGAACTCCATCAAAGCCATCCCTGCAGGAGCCTTCACCCAGTACA
AGAAACTGAAGCGAATGTGAGTTTCCCCTGTGGAGAAATGGGCCCAAATG
TTTTCAATTTCCAGGGTTGTTTGCAATGTGTAGTGGGCAACCTGTCCAGG
TGACGG

SLT_579519

TTCCACAATGAAAGCATATATCAAAACATTGTGTTGCACACCAAATATGT
ATACATTTTTTAAAGACTAGTTGAGTACAGTAGTGAAAAAGGAGGAAAGA
GTAGAACAAGGAGTTTGATCTGTAAGTACTGACTGTGAACAATCCATTGAGAG
AACTCACTACCTTTGAACCAGCCTAAATATGCAGTTTTTATAATAATAAA
[A/G]AAAAAGACAAAGTGACCAAGGTCAATCCCAGCTAAACTGTCTAT

FIG. 10V

271/299

CACTTCTCCAATTCCCCTCTCCAGCACCTCCAAACCGTGGGGCATCTCA
CCTCATACTGTAGGGAGAGATGGGTCCAGAAGTCTAGTTGTGGACTGAAA
ACCAGTTTGGCCCTCCCAGAGCTAAAGCAGAGGGTTTCCGTGCTGGCCACA
TAGCTT

SLT_580014

ACAGATCCTTCGTGTTTGTCTGGAATGCTTTGCATAGGCAGCCATGCTGA
GGGCAAGTGAGATTAGGATAATCCAGAGTATTGCTTGTTAAGACCCTTA
AACAAAACCGGAGCGCGGAAGAAAAGCCCGGTGTAAGCTGACGAGTTTGT
GAGTGCAATCTGCGGATTTGTGCGAGGTGATTTCCGCCAGCTAAAGGGATA
[A/G]ACTAGACAGCTGTGCCGAAGAGCCTTAACCTGTGAAATATCGTTC
AAAGTACAGGCTTTGGAGGCAGGGAGGGGAGGAAGTAGAGGCCTCAGCAA
AGGTTGTGGCATGGTTCTTTTGAATCTATTAGAAGAAGGAAGGAAACAG
GCTCAGAGAGATTCCCCTGCATGTGCTTAAGAGGCTGGAGTGTCTGGCT
TCGCTG

SLT_581033

TCCTGCTCAAAAGCTCCTTTTCAGGTCAGGGAGGAAAAGTCACTGGGGAG
GTGAAATGACTCTGGACTTTCTGGGAGAAAAATGAGCAGCTGCTGAGGCA
TGAGGCAAGAAGATGATGCCTACAGGAACCCTGGCTTGTGGTTGGTTGGG
TGAAGCCGGTTCCTGTTTCATCTGTGTGCTTAATTGCTTGGTAATGAAAC
[A/G]TAAGGCCCTAATTTGACTGGGCTCAATTTCCACCTACAAAGTGA
TGGTTCACGTGTTACAGCCTCGTGTCCCGATGAAGATGCCACGGGTGAG
TATTCTTTGAAAACCAAGAAGAGTGATGTAAATGTGGTGCACTTTATCAT
GAGGTAGTTGAACTGAAGGCTCTTTAAGCTCCTTCTCTTGCACTATGAGT
AAATGA

SLT_610234

CATCTTGCTTCCTACACAGGCGACTGAATGACAATGAGGTATCTGTTCTG
GAGGCCACTGGCATCTTCAAGAAGTTGCCCAACCTGCGGAAAATGTAAGT
CAACTTCAGGAACCTGGCAGCAGCCTCTGTTCTCTAGCCAGAGCCTGTGT
TCTAGACTAGAGGAACCAGGGGACCGGCCTCTCCCCAGCCTCTGCTCCA
[C/T]TCCCTCCCAGCCTTCTCCTCAGCCCCGCTGTGGCCTCTGTTAGGA
AGCAAGACATGTAGACACAGACCAAAGTGATGCTTCATGGTTTCAGTTGA
GTGTTATACAGAGCGAGCATTCCACACCATCCCTGACCCCTCCCTGGACC
CTCTGCTCACCCACCCCTACACGCCATCCAACACCTACCCAGGGCTGG
TGGGTG

SLT_610323

AAAATGTAAAGTCAACTTCAGGAACCTTGGCAGCAGCCTCTGTTCTCTAGCC
AGAGCCTGTGTTCTAGACTAGAGGAACCAGGGGACCGGCCTCTCCCCAG
CCTCTGCTCCACTCCCTCCCAGCCTTCTCCTCAGCCCCGCTGTGGCCTCT
GTTAGGAAGCAAGACATGTAGACACAGACCAAAGTGATGCTTCATGCTTT

FIG. 10W

272/299

[C/T]AGTTGAGTGTTATACAGAGCGAGCATTCCACACCATCCCTGACCC
CTCCCTGGACCCTCTGCTCACCCACCCCTACACGCCATCCAACACCTAC
CCCAGGGCTGGTGGGTGGGACTCAGGTAAGGACTAGCAATGGGGCACGGG
TATCTAAGGTATATGCTATTTGGCAATTTTGTGTGGTGACAGTTAAATG
TCTGTT

SLT_610466

GTGGCCTCTGTTAGGAAGCAAGACATGTAGACACAGACCAAAGTGATGCT
TCATGGTTTCAGTTGAGTGTTATACAGAGCGAGCATTCCACACCATCCCT
GACCCCTCCCTGGACCCTCTGCTCACCCACCCCTACACGCCATCCAACA
CCTACCCAGGGCTGGTGGGTGGGACTCAGGTAAGGACTAGCAATGGGGC
AC[A/G]GGTATCTAAGGTATATGCTATTTGGCAATTTTGTGTGGTGAC
AGTTAAATGTCTGTTTTCAAATGGAATCAAAAGACCCCTGCATCAGTGAT
ACACATCAGAATGAACATGCCAGCAGCTTCCCACAGTGGGTTTCCTCCAG
GAGTCCGTGGGTCTGACCATGCCTTGGCCTAGGCAAGGGCCCACTTGCCT
ATGTTGGCTT

SLT_641364

TGAGCTTCTTTAAGAATAACATTTTCAATTCTTTACCTGGCATTTC AAGG
AATTCTTTTGGATTGGGATCTGTTGCTGGACAATTGTGGTCCTTTGGTAG
CATCATATTTCCCTGCTGTTTCATGTTTCCTGTGTCACTTGGATTTC
TGAACATCTGGTGTAGCAGTCACTTGTTCTAATTGTTTGAAATTGCTTTT
GTAGGGGAGAATTTCTC[C/T]GAGGATATATATATATATATATATA
TGTTGTTGATTAAAGATACTTTGGGTTTGATTTTGAGTGCCTGTGGTAGTG
TGATCTTTGTATGAATTCCTCGGCAGGGCATAGGATCAGTGGTCTCTATA
ATCACATCCTCAGTGACTTAGGGTACCATTATTAG

SLT_645645

TGTCTGCTTAGGACCAGAAGCCAGTCTGCAAAGGGAAAGTGGGAGATCTT
GCAGAATGAAAGAGCATTACCCTTGGGAAAGTAGGAGACCTTCTCTGAAA
AGCTGAAAGAACACCATCTCTCTGTGGGATGGATTCCTATAAACTCCTGA
AACCAGCCTCTAGATAAGGATTTCTCAACTTCGGAACCTATGGACATTGGG
GTTAATTATTCGTTGTTGGGAGGCTGTCATAGACATTATAGGATGTTTAA
CAACATCTGTGGCCTCTACCCACTAGATGCCAGTAATACTTACCCCACTA
TTGACAACCAGAAATGTCTTCAGACCTTGCCAAATGTCACTGAGGGAGCA
CAAGTGCCCCCAGTTAAGAATCACTGCTCTAAAGCAATGGTCCTCAC[C/
T]ATCAGCTGATTAGAGGAATCACCTGAGCAGATTTTTTTCAAGCTACTG
ATGCTCAAGCCCATGCTAGACCAATTAAATCAGAATACCTGGGCATGGAA
CTCAGGCATCAGAGGATTTAAAGCTCCCCAGGTGATTCTAATGTGCAGC
TAACATTGCCACAGCTCTGGATGTTATCCCCGCAGGGAAGCTCGAGGTT
GCAGCTGGCAGAGGACTGCACCCCCACCA

FIG. 10X

273/299

SLT_661505

GAGCCAGCTGCCATCTGGGCATGGAGTTGGGAAGGGGCTGGCGCTGGCTG
AGGGAGGGCCCAGAGCAGAGGGGAAGGGAGGTATGGCAGTGAGCGCACTC
AGGACCTGCCATCAGTACTCTGGTTTTGCTGCCCAGGGCCAGTGGACATC
AACATTGTGGCCAAATGCAATGCCTGCCTCTCCAGCCCGTGCAAGAATAA
[C/T]GGGACATGCACCCAGGACCCTGTGGAGCTGTACCGCTGTGCCTGC
CCCTACAGCTACAAGGTATGCTGGAGGCCCTGCCCCCGTGTTCATGCC
TCAGGCTCCTCCTTCAGCCCTGGCCCTAGAGAGGGGGCACCATGCCCTGCG
TACCCTCCCTTCTCCAAGGGACAGCCTGGATGAGTCCATCGCACAGGTCA
CCTC

SLT_537097

GAGCTCACCAGCATGATGGAGTGGACACACAGAGAGAGCTTAGTGATGTG
GAGTCCAGGACGCCCCGAACCTAAGCAAGGACACCCAGAGGCAATCACGA
ATCCCTCATGTCTCACCTTCTGAGGAGCTCTTCTCAAGGGTTAACTAGT
CTCCAAATTGCCTTTGATGTTACAGCAGTTGTAATTGGTTTTATGCCTAT
- GAGGGTGAAAAACAAGAGGTGACCCTAGCTCCACGTCTTCATCACAAGAG
CCGCCCCACCTGCCCTGGTTCTTGTTCGCCAGGCCCTGGATCAACTGGT
GTACTGAGGCCACCAAGCCACGTTTAGAGAGGAGAG[A/G]TTGAAGAG
TTAAAGCAATAGCAGAACTAACCAGATTTTTAGGGTAGTTCTAATTCAGT
CATATCCTGGTGGGTTCAACGTGGCCTGATGCGGAACCCACAGGTAGAC
GCAGAAAGAGTGAATGGGGAAAAGGTCATTTTCTGGTACAAGAGGAAGGCA
GTGGAAAAAATCGACAGCAGTCCTGAAACCTAGGTCAGGGTGTGCTCAC
TCTCCTAGAGCGGGGTTGGTGTCTGGTACAGGGTGTTAGGATATTCAAG
CAGGATGTTGCCCACTTCAGAGAACCCAGAGTTTAATGCAAGTCGAGTG
TGT

SLT_600093

CTGCTTGATGACCTCCTTCCCTGGTCTCATGCTCCCAACCCTACCCGCT
CCCTGAACACTGTCTCAGGTTCCCTTCTGGGCCTGGCAACATCTCTGGA
AAGAAAATCTCACCCAAAGCACAATCGTCCTATCCCCAGCACCTTTCCTC
ATGACTCACGCCAACCTTGGCCTCTATTCCTACCCCTGTCTGGCCAGGGC
TGAGTTAATTAGCTCTGCCAAACAGTGGTACCCAAAAAGAAGGACAGTGA
GAGCCAGAGGAGGGCAGGGTATTATCTGCCAACCTTGACCCTTTGGTCTC
ATAAGTATCCTGTTAGTACTTTGGACCCCAAATGGATGTGGCGGCCCTGC
GTGGCACAGCAGGGAAAGAGTGCAGGATCCAAGGACTGGTATCTCCCCAG
GAACACAGTCTTGGCAATTTTCTGGGCATGACTGTAGGTTAGCGGGGTGG
CAAG[A/G]TGGGGGCGGGGCTATAGAAAGAACTAAGTAGGAGAAAAGGA
AAATGGAAAGTGGACCTAGGAAGCAGTAGAGCTTAGTTCTAACTCTAGCT
CTGCCACTATCGTCCTACCTGTAGATCTGCAGGATCCTGGCTGC

SLT_652015

atcacgccactgcactccagccttggccacagagcgagattcggctctcaa
aaaaaaaaaagaaagacagaTTCAGAGAGGTTTAGTGACTTGTTC AAGAT
CATTGTCTTATTCATCCtttctgaatacctgctaccggtagttgctgt

FIG. 10Y

274/299

gcftaactctggaggggaaagaaagcaaacagtgaatgagacacaattg
[C/T]tgccctcagggagctcttggtctagaaggggaaataagtaataa
gcaactacaacacaaggcgatacctgaaagaagagccatggggatacaag
tgagaggcacctaaccagctcttagccacccaaaaggctttctgaaagga
aggtTAATAATCAGCACTGACATTCATCAAACCGTGACTATGTGCTGCAC
AAAGG

SLT_669387

CCAGGTGCTTCTCCCTCTTTTGCTCCTCAGGGCAAGGACTGCACTGTGCC
CATCAACACCTGCATCCAGAACCCCTGTCAGCATGGAGGCACCTGCCACC
TGAGTGACAGCCACAAGGATGGGTTCAGGTAACAGTTCACCCCTGGCCTC
CCTCACtgtattagttgctctcacactgctaataaagacatacccaaga
Ctgggtaattataaaggaaagaagtttaaggactcacagttcagcatg
Gctgggaagcctcacatcatggcagaaggcaaggaagaaagcaaacatct
Taaatggcgggaggcaaaagagagcttgcagggaactcccattata
Aaaccgtcagctctggtgagatttactaccatgagaacagtatggg
Agaactgccccgtgattcaattatctccactggccccaccctgaca
Cttggggattattataattcaaggtgagatttggtagggaccagccaa
AccatatcaCTCACCTTGGAGGGCTCCCTGGGCAGGCTAAAGAAGCAGAG
ATA[C/T]GACCAGCGAGGGCGTGCCAGTGCCCGTGCTGTGCTGGCCCT
GTATGAGAATGATCTCAAGGCTCTTCGCACCCTGTAAGGGAAGTACAATT
TATCCCCACTGTGCAGATAAGGAAGTTCAAGCATCAGAGGGACAAATCCT
CTGCCTAGAGTTACATTAAGCATTGGCACAGGGATTGAAACCAGGTCCC
AACCTCGTGCTTCCTCCAAGGGAGGTGTCTGCTGCTGGCTAAAGTCAGAG
AAGGATTGGGTGAAGGCTTAAAGACTGCCCCTGCTGGCACTTCCACCATGC
TTTTCTGAGTTATAAAATAAGTGGCATTATTATATGCTCACTATGCCAG
GTACCAACTAGTCAAGTATTTTCTCATTTAAATCCCTACAGACCCTATCC
AGTAGGTAGGTATTATCTTCATTGAACAGATGGGGAAGCTGAGACACAGA
AATGGACTTGCTCTAGGTCTGATCTCCTGATGCTCATTCTGGATCTTCC
AGGCCCACCTCCAGCCCTCTTTCCTTCCTGACATTAACATTTCAAGAAGA
AAAGGGAATAGAAGTCACTTAG

SLT_676522

TAGGTATTTGTAGCACTGCAGACTTCAAAGGCAATGTGTCTAGAGACCA
GAACTTCAAATTCCTTTTCACTTCCTTCCCTGAAAAATCCAAGGGGCTT
ACTTTTCTGTAACAGGTGAACTGGGCTGCTAAGCCTTGCTGTGTCTCTG
AAGCCTCCTCTGACCTCCTGGGGAGGTTATGGGTCCCCCTTGTGCTTCC
ACAAAGTTTGCCCTTCTGGTCACACCTACAAGTCTGTATTGTAATTGCCT
GCTTATTTGTAGATCTTCCCAAATAGGCTGTGGGTAGGAAAGGACCCAGt
Cactgttgtgtccccagtgccctggcacagtacctgccacacaggaggtgc
TcagtaataagtgatggaatgaaAAAACAAATGAATAAGCATGGCCCCAA
GT[C/G]AGGGCCAGGCATCCTGTGCTCTCAGCTGCACCTGCCCTGCCC
CTGAAAGATCAAGTAAACAGCCAAATGGTGATGCTAGGACAGTGTCCAG
GAGGACACCTGGAATCTTCCCGTGGTCACTGCCAAAGAAACCAAGGCAGA
GGTGACAGGAGATACACAAGGAGTGAGAACACAGGACTCCTGACGTCCAT

FIG. 10Z

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GCC

SLT_666913

GCCACCACCACTCTCATATATGCACCTCTGGAACACTTGGCACCAACCA
AAGACCTGAAAAAGTATTTTAGTCACTCACATTCAGCCCTGCCTCAGACC
CCAAGcatcatcatcatcatcatcatcatcatcatcatcatcatcGCTAT
TATTTATGGAGCTGCCATTACATGCTAGGTGTCTTACATA[G/T]ATAAC
CATTAACATAATTCCCCATAGGGTAGTTCATATTATTTCCATTTCATAAGT
GGTAAAAACAAGGCTCAGAGAGAAGTATGTCATTTCTCAAGGAACACAGC
AGCCAACTTAGAATGTGCACTCCCATCTGTGTGCCCCTAGAACGCATGTT
TTGAGAGGGGCTAGCCAAGTGGTCCTgcatagaggctcccagcactaact
Ttgggtggtatgcttgggttcagctgcttgcctccattcacttactgc
Tgtgcatcttggccatattacctcactttctaagtctgtcttctctgc
Tgtaaaaatagttaataacaatcacaccaatctcatagggtgtgtga
Acatgatatgcatcatgaatataaaacacttagcatgaggcctggaacg
gaaaatgtgctc

SLT_617325

GGAGTCAGAGTCATCAGACATTCTGGAGCCTTGGATGGGAAAGAATTAG
CATGCTGAACACCTCCAGcat[A/G]cacactcacacacacaccacac
AcacacCCAACATAGTCACCCACTCTCGTGTATACACGTATATAGATTTA
TACCAGAACTTGCTGAAGGAGGCACACAAACAGACATTTACCCACAAAC
ATAAGCATAAGGACCTTTATAAAAATGatatatgcagacacgtgcaacat
Gcacataaacatatatacaaacaggcacagacacacaagcacacacatac
AtacaAGCTGATGTCTACAACCACGTCTTGATTCTCTCTTCTTCCCAG
AAATATGTGTGCACACCCTAGCAGCCACACAATATGCGTGTGTATACACA
CATATGCATGACATGTGCTTCCAAGAAAGCATGCACAAACAATAATGTAC
ATACACATTTACACACAGCCCCAGTGGGGCTCCAGTCCCTGCTATCACAG
GACAAACCTGATCAACATGGCTGGACTGAGCTTAGAATTGGCAAAAGCAT
CTCACCTATACACACACACACCACCGTGGCACCATTGTTGGACAGAAAA
GATCATGCCTGTGCTCTCTCATCCCCACCCCTCTACCTGTAAGATGCTGA
GGATGTAACCTTGATCGG

SLT_585307

AGGAGAGTCAGCGAGCGGGCAGAGGAAGACCGAGGTCAGTGTGCATAAAC
CCAAATGATA[C/T]AGCCGAGGGCCCTGGCCCAGGCATGAAGATACTAA
GCACAGGGTCTGGGGATAGAGATTA

SLT_16652

tcttcttggttgatccgttgctggtgagctagtgtgatttctggggg
tgttaagaacctgtttgtcatatcaccagagttggtttctggttc
ttctattagggtagggtctgtcagagggaaggtctagggttaaggctg
ttgttcagattcttgtccacagaggtgtcccttgatgtagtactccc

FIG. 10A2

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cctcttttctaggg[A/G]tgtggcttctgagagctgagctgtagttc
agctgattgtaactctctctctgactagccaccagcaattctaccag
gctcgggctggtagtgggggtgtctgcacagagtcctgtgatgcagcc
atctggatctctcagccgtggataccagcacctgttctggggcaatggc
agggaagtgaatggactctctgGAGGGCCTTAGCTTTGGTTTTTTAATG
CACTATttttgactgattggcctcctgctgggaggcactttcaagagag
cctcagctatggtagtatgg

>SLT_96349

AAGGGACACTGACGATCATGGGAAGGGCTGAGTGACCATGCCTGCATGGC
ATGAAGCCTAGTATGAGGGTCCCTGAGCCCAGCTTTGTCCTTAGTCATTG
CTGTCTCTGTGGTTGTAGGCATCTGGAAGACAACCAGGTCAGCGTCATCG
AGAGAGGCGCCTTCCAGGACCTGAAGCAGCTAGAGCGACTGTAAGTACAG
[A/T]ACAGCCTCCTTTCTTAAAGTATTTATTTACATTTAGTGTTTTTTG
TTTTGTTTTGTTTTGTTTTGTAAATTGGCCTTATAACCTTGTTAAAAAA
GGTCTCCAGTGTTTTAAATAGAATGTTTGCTATTATACTTAAGGCACATTA
GATGCATGTTAAAGAAACACTGAGATCCACTTACACTCCTTTTCTGTAAA
AGTTGC

>SLT_90256

GAACCTAGTTCCAGTGATAGGGAAAGTGGAAGGCTATGAACAAATAAATC
ACCATGCCCAGCTTCTAGGATGACAGCGATGTCAGGTTGACTAACCATGC
TTCCTTTTCATAGAGATGATAATTTCTTCTCCAGCCTGTGCATTAAAAGA
GCAATCAGGACAAAAGTTATCTGTCTTGTAGCTTAATGGAGAGGAGGGGA
GGAGAGCATCAGAAAGGGTCAGGGCCCTTGCTGAACACCCACAGCTGTGC
AGACAGGTAGCAAAATTTGAAATGGGCATTGATGGACTAGAGGAGCAAGG
AATATTAGGTTTCATTGCTGAATATTGAACACTTTCATCAATCCTTAAGT
CTGTGAGTGATAAGAACTTCCCAAGTGCTTGTCTGTC[A/G]AAAAGTC
TAAGACATTCAGAGGTACAGGAAAAAGCAATTTAGATTTTATTTTCCATC
TTTACTTGGTAGTTAATTTTGACCCATAAGTGTGGCTCCATGCAAGAAAT
ACAGACTGGGCCAATTGGCCACTGCCTTGGTATTTGTATGCCATGGAATC
TTAGCTGGCAAATTGTTACTAGAAGTGACAGCTAA

>SLT_89801

AAGAGGGGTCAGCCCCATTTGTATGACATGATCTGAGAGTTGGGGGAGGG
GAACTTCAACAGAAAAATTTGTTACCTAAAGAAGGGACCACAGAAGGCA
GGCAGTTACATATAAAAGAGTTCTGCTATGTGCATAATGAATGGTTTATT
CCATACAATATCCTTAAGGTTAGCCGGGCACGCTCAAGGGATATCGTTAA
TCATCAGAATTGCCGCCTTCTGGACAAGCAACATCCCTTCAGTCCAAGCC
AGTCTGGATTAAATAGACCGTAATTGTAACCCACAAAAATCTGACCTGAA
TTTGCTCTCCATTGCAGTGACCTGGACAGAAATAATATCACCAGGATCAC
CAAGATGGACTTCGCTGGGCTCAAGAACCTCCGAGTCTTGTAAGTAGTTG
ATGGCTCTCAAGTGTGTTTTCATTTTAGCTCTTCAGCCTCACAAAAAAA
TGTTCCACTGCCCTGACATCACACTCCCAAGCCCTGGACAACAGGAATT

FIG. 10B2

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CACCATTCTGCAGCAGAAAGCCCCCTCGTTAGC[A/G]TACCCACATGCTT
ACAGGTATCACATTCTGTGTCTAGATGCTGCTGGCTGAGCTAGATCGATG
GAAGAACTTAGTTCCAGTGATAGGGAAAGTGGAAGGCTATGAACAAATAA
ATCACCATGCCAGCTTCTAGGATGACAGCGATGTCA

>RS1862217

GACCTCCAGCAAGTCGCTTCACTTCTCTGAGCTGTTTTTCAGACGACCCCT
TGGAAGATCGTGGACTTAAGTAAAGAATATGAGTAGAGTGCTCAGCTCAG
TGCAAAAATTAAAAAAAAAAAAAGTGTGAGGAGCCTTATCCGTCCTTGGAT
CTTAACAGTGAATGAGTTTCAGTGTTT[C/T]TTTCCAGGGGGCCCTGCTG
GCCGAGCCCCCTTCCCTCCCTGGTTCCTTCTCTCCCTCCTCTACTGCC
TCCTCCCTCCAGGCTCTCGGTGCTCCAGCAAAGTTCCCAACTTAGTCGA
CATGACGC

>SLT_8967

TTAGTCTGGCTGGTTGGAAACAGAAAACCTCCGCTGACTGTGGTGGCCAC
ATGAAGGGTAGTATCTCACACAGGGAAATATACACAGGTTGACGAGAAAG
TTTGAGATGGGGTTTCTTGCAGGAATGGGTGAGTAGTTTGCTTTTGAGAA
ACACAGGTTGAGGAGAAAGTTTGAGATGGGGTTTCTGCAGGAATGGGCG
AGTAGTTTGCTTTTGAAAAGCCTATGGAAAAGTAAAGGGGAAAATTCAAA
AGTGTCCAGGGACTTTTACGCAACTCTAAAAATGACACCACAGAGTGTA
AGCCACCTCTGGCCCTTGGACATAGAAAGTTCTAAACAATAGCCTGACCT
CCTAGTGATTTACCCAGTCTTCTCCAAGGAGGGTAATTGCTCCATGGGGT
GGCTACCGCCTTCTGCAGATGCCCCAGAATCAGCTGAGGAAGTGACAGA
GCCACAT[C/G]TTCAGCATTGGAAGCCCGGAGTCCTGGCTCTGGTTATT
TCACTAATAGCTAGGTGACCCTACATAAATGCCCGCCTTTCTCTGAACT
CAGCTTCCTTGTTNNCNGTAAAATACAAGAGTTGAACTATATTTGGGTTT
TCAAAGTATG

>SLT_8898

TTAGTCTGGCTGGTTGGAAACAGAAAACCTCCGCTGACTGTGGTGGCCAC
ATGAAGGGTAGTATCTCACACAGGGAAATATACACAGGTTGACGAGAAAG
TTTGAGATGGGGTTTCTTGCAGGAATGGGTGAGTAGTTTGCTTTTGAGAA
ACACAGGTTGAGGAGAAAGTTTGAGATGGGGTTTCTGCAGGAATGGGCG
AGTAGTTTGCTTTTGAAAAGCCTATGGAAAAGTAAAGGGGAAAATTCAAA
AGTGTCCAGGGACTTTTACGCAACTCTAAAAATGACACCACAGAGTGTA
AGCCACCTCTGGCCCTTGGACATAGAAAGTTCTAAACAATAGCCTGACCT
CCTAGTGATTTACCCAGTCTTCTCCAAGGAGGGTAATT[C/G]CTCCATG
GGGTGGCTACCGCCTTCTGCAGATGCCCCAGAATCAGCTGAGGAAGTGGA
CAGAGCCACATGTTTACGATTGGAAGCCCGGAGTCCTGGCTCTGGTTATT
TCACTAATAGCTAGGTGACCCTACATAAATGCCCGCCTTTCTCTGAACT
CAGCTTCCTTGTTNNCNGTAAAATACAAGAGTTGAACTATATTTGGGTTT
TCAAAGTATG

FIG. 10C2

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>SLT_8778

TTAGTCTGGCTGGTTGGAAACAGAAAACCTCCGCTGACTGTGGTGGCCAC
ATGAAGGGTAGTATCTCACACAGGGGAAATATACACAGGTTGACGAGAAAG
TTTGAGATGGGGTTTCTTGCAGGAATGGGTGAGTAGTTTGCTTTTGAGAA
ACACAGGTTGAGGAGAAAGTTTGAGATGGGGTTTCTTGCAGGAATGGGCG
AGTAGTTTGCTTTTGAAAAGCCTATGGAAAAGTAAAGGGGAAAATTCAAA
AGTGTCCAGGGACTTTTA[C/T]GCAACTCTAAAAATGACACCACAGAGT
GTAAAGCCACCTCTGGCCCTTGGACATAGAAAGTTCTAAACAATAGCCTG
ACCTCCTAGTGATTTACCCAGTCTTCTCCAAGGAGGGTAATTGCTCCATG
GGGTGGCTACCGCCTTCTGCAGATGCCCCAGAATCAGCTGAGGAAGTGA
CAGAGCCACATGTTGAGCATTGGAAGCCCGGAGTCCTGGCTCTGGTTATT
TCACTAATAGCTAGGTGACCCTACATAAATGCCCGCCTTTCTCTGAACT
CAGCTTCCTTGTTNNCNGTAAAATACAAGAGTTGAACTATATTTGGGTTC
TCAAAGTATG

>SLT_278

AACTATATGTCCTTGTTTTATTTTATTTTATTTTTTTTTGGGGGGTGGTTT
CCATAGGGTTTACCACATATGTCTTTAACTAACCATAGTCTACTTTCAAA
TAATATCATACCATTTTACCTACAGCATAAGAACCCTTACAACAGTATACA
GTATACTTCCATTACTGTTCTCCCATTTCTTTGTGCTGTTCTTTTCATATA
CTT[G/T]AACACCTATTATAACCCCTTGGTACATTATTACTTTACTTT
AAACAGTTATCTTTTTTAAACACCTTTATTGTGAGGTACAATTTACATGTA
ACACAAGTCACTCATTTTAAAGATGAGTTTGATGAGTTTTGGGAAATTTTT
ATAGTTGTGTGACTATCACCACAATCTAGCCTTAGAACACTTGTGTTGCC
CCAAAGAGTGAATCATGCCTGTTAGCAGTTTCCACTATCTGTCCCACCA
TCCCCTTGGCCTCAGGCAACCACTGATCTGCTCTCTGTCTCCATAGTTTT
GCCTTTTCTTTACATTTCAAATAAATGGAATTCTATGGCCTGTAGTCTTG
TCTTTGTGTCT

>SLT_RS1592817

ATAGAGTCTTCCAATCCATGAGCACAGTTACATCAATCATTTTATAAGCT
CATTTTAGTTTCATCAAAATTTTGTCATATTCAGCATCAAATCTTGCACA
TATTTAGTTTTCCCCTAAATATTTTCATGTCTTTAATGCTATTGTAAATG
ATACTGTTTTGTAATTTTCGATTTCCAGTTATTCCTCCCAATATCTAAGA
CGGCAATTTATTTTCATACATTGACCGTATCTTCTTATATACGACAACTT
TACTAAACTCAATTAGTAGAATCTTTTCAAAAAGTTTTATTTGGATAATT
TTAATGAGCACAAGAGCCGTTTTGTTACATGGAGATATTGTATAGTGGTG
AAGTCTGGGCTTATAGTATAACCATTACTTGAACAATGTACCCATTAATA
TCTCATCCCTCTTCTGCTTGCACCCTGGACCCTTCTGAGTCTCCAGTGC
CTACTATTCATACTCTATGTCCACAAGTACTCATTATTTAGCTTCCACC
[A/G]GTAAGTGAGAACATGCAGTATTTAACTTTCTGTTTCTGAGTTGTT
TCTTTAAGATAATGGTCTCCAGTCCATCCTTGTCAGTGCAGAAAATACA
TGCTTTTCATTCTTTTTGTATAGCTGTACCTAGCAGATTCTTTGGGATTT
CCTATGCAGATAACTGTGTTGTTTGTAATAGAGATTTATGTCTTCCTTT
CAAATCTGTATGTCTTTTTACTTTTTCTCATATTATTACACTGGGTAGAA

FIG. 10D2

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CCTGAAGTATGTGTTGAAAATGAGTGGTGAAATTAGACATTCTTGCCTTT
ATTTCTGATTTTAGGAGGGAAGCCATCATTCTTGCATTATTATGTACATT
AGCTGCAGGGTGTCTATAGATATTCTTTATTCAGTTTCAGGATGCTTCC
CTTTTCCTTTAGCTTTCCGAGAATTTTTATCATGAATACATGTGAAATGT
TGTCAAATGCTTTTTTCGCACCTATTGAGATGATAGTATGCTTTTTATTT
TTTT

>SLT_RS1024973

TTATTATCAGCTATGAAAATGCATTTACAAGTCACACTGCTATATGTCAG
CACCTGATACCTCCTAGGCCATGAGAAATAAACAGTAACATTTTTGAGA
CTTCTTCTTCAACCCAGTCAACAAACATTCCATTGCAAAGTAAGAAAAGA
GGGCAGGGCATGAATTTAAAAGCAAATTGTTCCACCATTGTCTGGAGTCT
GGTGTCTGCTTCTTTCTGAAAAGATTATTGACTCTTTTCTGTTTCTTTTA
TTAAATGTCATATTCATTTAAGTGTTATGCAAGTTGCCAGTGTGTATGGA
GCATAGTAATAGATGTTTTTCATAAATGCGTTTTATCTTTATTTATCAGT
GACACAAAATGGCAAGTGATAATCAAAGCAATGACTTAGGAATCCTGACC
AAGACAATCTTTCCATGGAAAAGGATCATTTTTAAGAAAATAATAATAGT
GGCTACAATTTTTAAAATGAGAAAAGTGGTTTAGGTGAGTTTTGTTTG
[C/T]TTTTGTAAGGTTGATTGAAATATTTACAGATGGGAAAATGTGTCC
TTTTAAGAGTATACTGTGATGAGTTTTGAAAAGTGTATACAGTTGTGTA
ATTAATCATAACTAAGCTATAGAACATTTCCATCACGCAAATGTCCTT
ATGTCTTTTTATAGCCTATTATCTCTCCTCTCCACCACTCTCTAGCAAGC
AAAAATCTAGTTTTGGGTCTGCTTTTTGCCTTTTCAGAATGCAATATAAA
TGTAAGAGAATTTGTAACTTTTGTGCCTTCTTCACTAACAGAATGTTTT
TCAGATTCATCTATGTTGTTGCCTGTATCAATGCTTTATGTTTACTGCTA
AGTTATGTTCCATTAAATTCATGTACCACAAATTGGCTGTCCACTCACCA
ACTGATGACCATTTGAGTTGTTTCTTTTTTTTTTGAGAAGGAATCTCTCC
CTGTCGCCTAGGCTGGAGTGCAATGGCATGATCTTGGCTCATGCAATTC
TGCCT

>SLT_RS1422032

GGAAAAGACAAACCACCCATAATTCATAATTCTCTCACCTCTCCTGGAGT
TCTGCTTTATGTTAATTTTTATAGTAGTTTCCTCATAATTAGATATCACA
TCTCCATCCAATATTACATATTGTTTCCTTCATTTAATATTAAGCATTAA
GCATTTTCCATAAAGTTAATCTCCAAAACCATCATTTCAATTGTTGCATA
ATTTTTCATTTGTCCATTTATGTGAATAAATGTACTATATGCTACACAAC
AATTTATTATTGGACATTTAAATTACTTCAAATGTTATTAAATATATTA
TTATGAATGTTTTGAGCATATTTAAGCATAATTGATGAATTCATAATTCA
GCTGTCTACCATTTAATGACCAATTATTGGCTGCCAGTTATGGTGCCTG
TGCAAATGACTTTTCATACATCTCATTTGATCTTAATAGCACACAGAGTA
ATGTCTATGTTGAAGTAGTTTGTCACATATAAAAATGTAAACATAATATG
[A/G]AAACACTCTTGAAGTATTGATCATTTTTGCTAAATATTAATATG
TAGCCACATTTGTTTTAGAATCTTTAAAAAGTAAATATTTACATAGA
GTTGAAACTCCTCATCCTATTGCCTTCCCACCTCCCCGTAGGCGACTAC
TATCCAGAACTTAGTGTTTACATCTCTATTTTCTAATTATTTGCTCATA

FIG. 10E2

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TGAATGTGCCAATAAAGAACACAAGGAATTAATGTGCTTCTTTTAAGATT
TATATAAATGGCATAATATACTGTACATATTTTTGAACTTCGTTGTTTAC
TTGTGTCTTAAAATTATGTTGATACATGATGATTTTGTAAATTTAAACAG
CTGCATAGTTTTCCGCTGTATGTATAATCACAATTTATTTATGTGTAAAT
TTGATGAACATTTAGGCTTTCCCTATAATTTGCGTTTGCAAGCAATGCTA
TAATGAACATCTTTTTACATGTCTCCTTTGTGCACATGTGTGCACTTACA
TCTAG

>SLT_RS1422031

AATTGAAAAGTCAGTGAAAGATACACACATCTATGTTTACCCCTTTATGG
CAAAGATAAAACTGAAATGCAGTAGGAATTGAAGTGTATTTTCAAAAATT
AATTTTTTCATCAGTTGGATACCCATATGAGAAAACCTGAATTTTAATTTAT
ACTTTGTATTATAAAAAGAAAGTCCAAATGTATTATAGATCTACATATAAA
AATTAAGTTTTCTAAAGGAAAACACAGAAGAATATCTGTAGGCGAAGATT
TCTTAGATAGAATAATCATAAAATACTAACAATAAAAAGAAAGTTGGGCTA
CATTAAAATTAAGAATTTCTATTTGTCAAAAGACAACACTTTGAGAGTGA
AAAGACAAGTTATACGGTGAGAGAAGATATTTATAGTACATATATCTCAC
AATTGATTAGTATTCATAATACCTAAGGAACTCATACACATTGATAATAA
AGATATAAAACTCAATAAAAAAATGGGCAAAAGATTCAAGTAGGCACTTC
[A/G]GAAAAGAAGCTTTTCAAAGGCCCATTAGCATTTGAAAAGATGTTT
AACATCATTAGTCATTAGAGAAATGAAATAGGGAGACTGTCCTATTACCT
GAGTGGGCCCATTACAAGGGTCCTTAAAAATGGTAGCGGGAACCAGAAG
AGAGAACAAGATGAAAGTGAGAAGAATTCAGACCAAAACTGCTGGAGGAA
GTCAGCCAAAAAGTCAGTGAACGAAAAAACTCAGGTGGTCTCTAGAAGC
TGGAAAAGGCCAAAGAAACACATTGTCCCCTAGAGCCTCCAGAAAGGAGGG
TGGCCCCGATAACACCTTTATCTTAACCTAGTGAGATTCTTATTGGACTT
CTAATCTACAGAAGTGTAAAGATAGTAAATTTGTGGTGTTTTAAGCCACTA
AATTTGTGGCAACTTGTACACCAGCAATGGAAAAATCCTTCTATGACCC
AGCAATTCCTCCTAAATATATACCCAACAGAAAGGCAAAGATATATGC
ACCAA

>SLT_RS1001869

ACTTAGAGCTGTGCCCTGGACCTCATAGGAAACCTATTAGAGCACTTTG
TGACATGTGTCTGAGACTCAGAACTAAAGCAGAGAAGTGTTTCTAGTGAT
GGAAACTGCATGGGGCAAACAGGGACATATGGGTGAGAGGAAAAGAGAAC
AGTAAAAAGATGTCAAATCTTTTTGTCTGCAGAGATAATGAGGTTTTGGA
GAGAAGAAAGAAGGCCTTTGCCTGTGGCTCTCTGGTGCTCTTTAAATAAC
AACCAAGAAATACCTTATTCTTTGGAGTGCCTCTAATAAAAAATTGTTCT
CTGCATCTGCGATGATCTCTCAGAATGAAACCTTACACCTTGTAGTAGAA
ACTTAGTGCAATGGTTTTTCATGACTTGTAATTTTCTGTGCCAAATGAAA
AGCTTCCTGTTTCAGTGGTCCTGAATTGAGACACCATTTCTAGTCTGCAGG
AGGCTTGTAGGATGTCTTCCCCTGGCTGCTAGTGAGCTGTGGCTCATGTT
[A/G]TGATTTTTTTTTAAGCCTCCAGCATTTTCGCTTTCACTCTGATT
GCATCGGGCGAAGTGGCTTCAGCCAGTCTAGGGTGACCAGTGGTGTACCC
TGGATCCCGCTAGCAGTCAGGAGTACCAGAGAGATACAAGTCAGTGAGGT

FIG. 10F2

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AAACCAATCCAGCTGCAAGTGCAGTGTCTGTGTGGGCTCCAGGGGAGCAT
GGAAATGTCACCTACTCCTGTGGCATCTGCACCACACCGTAGCAATGTGG
GAAAAGCATGAGCAATAAATTACTTGCCAATGAACTCCAGACGTCTCCAG
CCAAGTAAGCATTTCCTGGGACTCTAAGGATGGCGTCCAAGATAAAAAACA
GAGAAAACACATAAAATACGCAGAGCAGACAAAGGACTACATCAAAAAAAT
ATAAACTTCCTCATAAATCAATAAAGGAAAGGCCAAGTCATGATAGAAA
ACTAGATAATTTACAGAAGAAACCTGGAAAGCCAATAATAATGGAAAAAA
GCTTA

>SLT_RS1422035

AATGTCATCAGGATCCAATTTCTCTCTCTCTTCAGCCCCTAGTCATGCTT
TCTCTATGTAATTTTCATCTTCAGACAGATTTTATCCTTATCACGTGGTCC
CCAGATTCCCCTGGCTGACATTCCACAGCTCCAGGTCCAGCAGAAGGTGA
GACTGTGCTCTCCACCACTCAACCAAGTCCCGTGATGTGTCTCGCTAGA
CCAAGCTTAATCACTTCCATTCTCCTGAACCAATAGCTGTGGCCAGTACC
TGCTCAATTGTTTGACTGGCAAAGCCTGGGCCACGAGTCCACTTCTGGAG
CCAGGGGTGAGGAACTGTCACCAGCAGTAGATGCTGATTAGGAAAAGAAT
ACCCTCAGTCACACTCTGCTTATTCATCTTCATTCAATTCATTTTGCAGAG
ATGAACTGAGGACTTATTTGTGCTAGAACTAGAGACAGAATCCCAGATA
ACTTCTGCTCTTCCTTCACAATGTCACTCAGGAGTCATCAGTTCTATGAT
[A/C]AATTTGTTTCATTTCCGCCCCCTCGGCAGAGTCAGTTATTCCCTCC
TTGATGCTCTTGCTCTTCGCAGGATTATGTTGCTATCTCCCCATCTTTCT
CCCTAACTTACTGTGAGCTCCTGGAGGACAGGTATTGTATCTTATTTATC
TTGGCCTCCCCAGATACCAACAGCAGGCACAGACAAAGCATTACAAACC
TTTGTGAATAAATATGCGAATGATGAGTTAATTATTTAATTAGTTAATT
AATGCATATGCTCCTAATCCTGCAGGGATTTTACAACTATCAAGGAAA
ATAAATCCGTAAATAGCTGGAACACAGTGTGATCCACGGAGTGACAGCCA
CATGAGCAAAGGCTGGTGAGTGCAATGGAAGGTAGCATGTGTTCAACCTG
AAGACAGAATTCTTAAAGTTGTTAAAGATATCCTTTGCTATTTCAAATCT
AAATCATGCTCCCTATGACTTCTATTACCTATTCTTAGTTCTTCATTCT
TCAAC

>SLT_RS1895203

GGTACTGTTTACCCTAAAACACCTTCCTACTGATACTCCAAATCCTAATA
GATATTTTTTGAGTTACTTATCACATTCTTGATGTCTGGAAGACAGACAA
TAGGTGGAATCAGTAAAAGATGAACAATGAGGTTGGAGGAAGGGGACCA
AACATTTATTCAGTATTTACTATGTGTCAAACTGAACTGAATAGAATA
GGTGATATCACCCCTACTCTACAGATGAAGAAACCAATACCCTGAATAGG
TTTCCCAAGGAATCCTGAGTTACAGAGCAATGGAGTCAAGATTGAACAAG
TTCTAACTCAAAGTCCTTATGTTTGTCAATATTTGATGCCGTGAGGTTAG
TACTGGAGGGTTAGATGAGGAACAGGACACCAGGCAGAGAGATGAGAATT
GGATTCTGGGAGTATTCGAGTGTGGGATAACTGAGCCTAATCAAGCAGGT
AGCCAGAGTGGGCACAGAATTTCAAGACCAGGCACCAGCTACTAGACAGA
[A/G]GCTCCATCATGACCTAACCTTGGCATTATTGCAAGATTTTACAAG
CTTCTTATTTATGGGAAGAGCCACACTCTGAATTTGGCTATCTTGAAGGT

FIG. 10G2

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TACAAGTCAAAGTGAATGGCAGTAACCTGCTTTATGGAAACCCTGAGTAG
GTGTAGAGCAAGACAAGTTTATCCCTGGAATCCCTTCCATGATCTTATTT
GAAGAAGTATTCTTAGGTAACAATACCCCAATGGTTCCCAACCCATGGGA
GCTTCTGAATAGTTAGTACACCTGGGACCCATCCAAGACCAACTGAGTTG
GGTTTCTAGGTGTGGGGCCCTGGCATCTGTGCTCTCTGAAGTTCTCCAGA
CCTGATGAGCAGCCAGGGTTGAAACCACAGCCTTGGGTAAATGAGCTTT
CTGTAATATATGTTATTTCTCTGAGAGGTAGGACAGAGTTACAATGCTGC
AGAATTCTAAGGGGCAGAGGGAGAAGGGGGAAAAGCTTCTGGTCCTAAAA
GTTGA

>SLT_RS918408

GACACTTGCAGACTCCTTGAGGTGCATCATTATTGGAAAGATTAGACTAC
CTCAAAGTGCAGTGTCTTTCTGATGGTTATAGGAATCTTTATGGACCTA
CATCCTTTTGCCCTATTAAATCGCCTAGAACATTGCTTCTCAAACCTTAA
CATGTACAAAAATCACCTGATGGTTGTGTTAAAATATGAATCCTGATTG
GTAGAGTTACTGCATTTCCCATCATCTTTTAGGTGATGATGAGACTGCTG
GTCTGCGGTCTACCTTTTGAGAAGTCAGAGGACTAAAGTCAAAGTCCTTA
GACTGCCTCCAGTTCTACTGTTTCTAGATCCAGTCCCATTGATTTGAGGGCT
GGAGTGTCTCATATAAAAAGAGGTAGAAGATGAAAAGTAACTGAGATTT
GAAATCATATCTAGGCCACTGAACCCTGAACTAGGCAGTGAAGCCAGACG
GACCACGCCAAATCAAAGCCCTGGAAGTTTCATGTAGTCATTCCAGACAT
[A/G]CCCCTGAGGCCACCAGAGCCATTTGTTCCAAAATCACTTGGAAGA
CAGAAAGCAATTTGAAATCATGCCTGAGCCCCAGGCACCCAGGGCTGCC
AGTGGGGTCAGCTGCCCTGATTGAATGGCACTCCATTTCTGTCCCCCAG
AAACTGTTGGATCCCCAGCCTGTTTCTTACGAAGGTTCTCTTTTGTAT
TGCTTCAGAGTATTGCACAGGATATTAGCCACTTCCTTCTCTATAATTCA
TCCTTCCACTTTGCCATCTGGAATATTTCTCTTTTACAAGTGCCTAAGTT
GTTACAGTTTGAGGCAGTTGAATCCTAACTTTGCCATTTGGGGTAATTTA
TTGTTTTTAATGCTTTCTTCCAAAATTCAGATTCTGTGGTTTGAAACAG
AATCCAGCCAAGATTTTGCTTCCTAGTTGGACATCTGGTTGTCTGTCCT
TTCCAGGTCTTCTCTGGGTTTATTTTTCAGCTTCCCGCAAGTGAATCA
GCTCA

>SLT_RS1019461

AAAGCTCCTTATCTTTAAATGTTGCATCAAATATTGTAAACAAAACCTAG
GTGTGCCAAACAAAACATGTTTGAATGTCATTTTTTAAAAACTCTTGGCT
ACCAGCTGGAGCTCAAACAAACAATGACATGCAGTGAATGCTCTTATCCT
TTCCAGGTCTCTAAGAAAACCCAAAGTCCCTGCCTCCAACCTTCCTCCCC
GACAGATACCCACACTACATCCCCTCGCTCCTACTGGCTCCCCAGACAAT
GAGCTGGACAATATGACCCAAGAATTTCACTGCCAAGGTATTGCTGCCAA
GGTTTTTCGAGTTTCAAGTCCCTAGTTTAGAGTGAGTCATCTCAAATTCAA
TTAGTGGAGAGTTCTCTGGGTTTCACTGAGTGGCAGAGGGAGAAATG
ACTCAGACGGTGGAGCATGCAGTGCCTAATGGGTCCAGCATGTGGGGGCT
TTTGAGATTGTTGGGCACGGTGCTCATGGTGCCCGAGGGGAGTACAAAGC
[C/T]GGGCTGGAGGTTGCAACATGCTCTCAGCTCAACTCATTGTTGGCT

FIG. 10H2

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CTTTTGGACTGAAAGATATTTGAGATATTTGTATTTGACCTCAAACATAT
GGTGGATCTAGCACCTCAAGGATATATATTATTATAAGCCTGTTGGCTCC
TATTCCAGCCTCGTTTCCCTTCTGCCAGCCTGAACTGCACATTTTGCATT
TGGCATTACCAAACTATTGTAATCCCCAGGCTCTTCTTGCCTCTATAC
CTTAGTGGTGCCATTGTTCCCTGGAATACCTATATGTGCTTCTGACAAA
CTCCTTTTTGTGCTTTAAAGCTCCAAACAGACATCACTACTTTTGGGAAA
ATAACTCTAACACCCCCCATTTGTTAACTTGTATTCTTCCTTTGTCCA
TCTATAATTTGAACTTACTTTTCACATTGTATAAAAACCATTTGCTTATC
TGCTTGTCTGCCTAGTTAAGGAGAAGCCTTTAAGGTCAGAAAGCTTGTA
TATTC

>SLT_RS981957

ATTAAATAAACCAACCTATGCAAAATACTTGAAAGGGTTCCTGGCATAAA
GTAAGCAATATATAAGCATATAAATATAAATCTAATTACCATTTTCAACA
TGTTCCAGACACAATGCATATATTGGTCTTATGAAGTAGATATTTATTTT
CTCATAAATGAAACAAAGACTCGGGAAGTTATAACAACAAAAATAAATCCT
GATAAGAATAGAGAAGAGAAGGTTCCCTATTGCCAGCCTGGGGAAGTCCTT
GAAAGCTTTAGGGAAGAGCAGGCAGATGAGTACAGATGAAAGGAAGGGGA
GCATTGAAACATGAATAGATGGAGAAAAAGAAAAACATTCCATGCAGTGT
CGTGGGTGCCAGGTCTCCTGGGAGAGGACATTAGATGCCCAGACTTGGAC
CAGCAATGACATTCCATTCACTATGCATTGAATGAGCATCCATTAAATAC
ATACCATGACACAATTATGATGGGAAACGTAAGATAATACATGTAACCCC
[C/T]GCCTCAGTATGTCTACTATATGTTCTGCCAAAATAGAATGAGTAG
GTGAGGTGGAGGTTGCTGACCTTCATGCCACCCTTTTATTGCATTATTT
TCTAATAAATTCCTGAGCACTGAGCAGATGAAATATGCCAAAGAAATAAT
ACTTTGAGGTCCATTCCCTCTGTTACCAAACTGTCATCAGAGTTTGTCTC
CTCATTGGTAGCTTCAGAATAGGCTTTGCAAACACAAATGCCTATAGGGC
CAAAAAGGCCCTTGAATGTTACTACACAAGTGAAACATTCTGGATATAAG
TGCAGGGGCATCAGAATGTAAAAATCGGGGTGAAGACTCTGGAAACCTAG
GGAGCACACCACCTGTACCAGGGATATCCATTCTTCACTTGCAGTGGGTT
ATTGCCAGGTCTTCAATGCTTTAACAGAATCAGAAATGTGGTATGTAAT
GTAAAAGCTCCTTATCTTTAAATGTTGCATCAAAATATTGTAAACAAAAC
TAGGT

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GTTGAGGATTTTGCATTTATGTTAATCAGGGATATTGGTCTGTAGTTTT
CTTTTTTTGTTACGTCCTTCTCTGGTTTTGGTAACAGGGTGGATTTACTG
GCCTTGTGGAATAAGTTAGGGATAAATCCCTCCTCTTCAATTTTTTGGA
CAGCTTCAGGAGGATTAGTCTTAGTTCCCTGTACATTTGATGGAGTTTGA
CTGTGAATCCATCTGGTCCTGGGCTTTTCATCAGCTTTGGACAAGAACA
ATTTTCCCTTTTTATAAGAACACCAGTCATATTAGATTAAGACCCACCCT
TATGACCTCACTTTAACTTATCTGCAATGACCCTATTTCCAAATAAGTTT
CATTCACAAATACTGGAGTTAAGGACTCTAATAATATATTTTGTGGGGGA
CACAATTCTACCCATAATACAGCCCATGCCTTGCTCCCAACTTCTGGTTA
ACATCAGACCTGCACAACTTTCCTTGGTTAATAGATTTCTTGAGCCTTC

FIG. 10I2

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[C/T]GTTTTCTGACTCTAATTTAGGTCTGTGTGCCTTCCAGGCACATTC
CTCAGTACTTCCTACCTGGAGAAGAATAAGGGACTACTGCAGCTTCCTGC
AGGAGTTCTCTCCAGCAAAGAAAGGCCTCAAAGACATCTTCCTAGAGATT
ATTGTCAGACAGCTATTGCATGGAGAAGCAGCAGAGCTGGGAGGACCCTC
AGGGGTCATATGGCCATTTTACAGAGGAATGGACTGGGTCCCAAAACAAT
TAAGTCATTCTTGTCCAGGTATGTGTCAGAACCAGGCTGCCAACTCAGTC
TTCTCATTTGAAGCTGGTACTTTTCTCATTCCACTTAAGACAAGCTCAG
CTCTGTCCTAGACATTATAAGGGAATCAAAAAAATATATAATATTTTCATT
GAGTTAAAAATGCACATATTTACATTTTGAATCTCCAAAATAGAGATG
CTATTTCCATTTGATGGCATGTCTAATCGGCAGCATTTTCTCTTTTTTAG
TAGAA

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TGAGAGAGGAGTGCAGTGGCGTGATCTCGGCTCACTGCAAACCTGTGCCTC
TCAAGTTCAACCAGTTCTCATGCCTCAGCTCCCAAGCAACCAAGATTAC
AGGTGTGCACCACCATGCCCGGCTAATTTTGTATTTTGTAGTAGAGATGG
GTTTTACCATGTTGGCCAGGCTGGTCTCAAACCTACTGCCTCAGGTGACC
TGCCCTCTTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCTACCGT
GCCCAGCCCTCTTGCCACTTCTATTTCAACATCGTACTGGAGGCTCTAGC
CAGTACAACCTAGACAAGAAAGTTAAATAAAAAACATACACAGTGTAAGG
AAGAAATAAACTAGCTCTCTTTCAGATGATATAATCTTGTAACAGATC
TTGTAGAATCCTAAAGAACCTACTAAAATTATTAGAATAACATGACAAGT
TTAGTAAGATTGTAGGGTATAAGAGCAATATACAAAAATCAATTGTATTT
[A/G]CATGTACTAGCAATGAACAATCTGAAAATGAAATTAAGAAAATTT
CATTTATAATAGCAGGAAAAAGAACAAGTAAGCTAAAATACTTAGGAATT
AATTTAACAAAATAAGTGAACAACCTGTACTTTGGAAATGACAAGACATTG
TTGAAAGAAATTAAGACCAAATAAGTATAAAGACACATCACATTCTCAG
ATCAGAAGGCTTAAAATTGTGGAGATGACAAAACCTGCTCAAAGTGATTCA
TATATTCAATGCAGTCACTGTAAAACCTCCAGCTTGCATCTTTTCAGAAA
TGGACAAGCTGATTCTAAAATTATATGAAAATGCAAGGGAACAAGAATT
GCCAAAGAATCTTGAAAAATAACAATGTTGGAGAGCTCACACTTTCTGAT
TTTAAAACCTTACTACAAAGCTACGTTAATCAGAAGTGTGGCACTGGCATA
AGGATAGATTTATAACTCAAGGGAATAGAATTGAGAGCCCTGTAGTAAAA
CTCTC

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CTTTTTATGTGTTTTAAATTTTCCATAATAAACAGTTTTTAAATATATAT
ATAAGAGTATTGACATACCTATGAATGCAAGATCGGATTAAACATCTGAAT
ATCAATTAATGAAATATACATATCAATAGAATAAAAAACAAAGAACATAA
GGTCATCTCAATAGATGCAGAAAAAGCATTTGACAAAAATCTAACACCAC
TTCATGATAAAAAACACCTAACAACTAGCAATAGAAGGGGACTTTCTCAA
CCTGATGAGGGCCATTTACAAAAAGCTCACAGCCAACATCATACATACTT
GTGGAAGACTTAGTGCTTTCCCTCTAAATATTAACAACAAGACAAAGATG
TCTTCTCTTGCCCTTTTTTTTTTTTTTTTTTTTGGAGACAGGGTCTTGCT
CTCTCACCCCTGTGAGAGAGGAGTGCAGTGGCGTGATCTCGGCTCACTGCA

FIG. 10J2

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AACTGTGCCTCTCAAGTTCAACCAGTTCTCATGCCTCAGCCTCCCAAGCA
[A/G]CCAAGATTACAGGTGTGCACCACCATGCCCGGCTAATTTTGTAT
TTTGTAGTAGAGATGGGTTTTACCATGTTGGCCAGGCTGGTCTCAAATA
CTGCCTCAGGTGACCTGCCCTCTTCGGCCTCCCAAAGTGCTGGGATTACA
GGTGTGAGCTACCGTGCCCAGCCCTCTTGCCACTTCTATTTCAACATCGT
ACTGGAGGCTCTAGCCAGTACAATAAGAAAGTTAAATAAAAAACA
TACACAGTGTAAAGGAAGAAATAAACTAGCTCTCTTTCAGATGATATAA
TCTTGTAACAGATCTTGTAGAATCCTAAAGAACCTACTAAAATTATTAG
AATAACATGACAAGTTTAGTAAGATTGTAGGGTATAAGAGCAATATACAA
AAATCAATTGTATTTCCATGTACTAGCAATGAACAATCTGAAAATGAAAT
TAAGAAAATTTCAATTATAATAGCAGGAAAAAGAACAAGTAAGCTAAAT
ACTTA

>RS2112330

TCTTCTTGTTTGGATCCGTTGCTGGTGAGCTAGTGTGATTTTCTGGGGG
TGTTAAAGAACCTTGTTTTGTCATATCACCAGAGTTGGTTTTCTGGTTTC
TTCTCATTAGGGTAGGGTCTGTCAGAGGGAAGGTCTAGGGTTTAAGGCTG
TTGTTTCAAGTCTCTTGTCCACAGAGTGTTCCCTTGATGTAGTACTCCC
CCTCTTTTCTAGGG[A/G]TGTGGCTTCCTGAGAGCTGAGCTGTAGTTC
AGCTGATTGTTATCTCTCTTCTTGATCTAGCCACCCAGCAATTCTACCAG
GCTCGGGCTGGTACTGGGGGTTGTCTGCACAGAGTCCTGTGATGTCAGCC
ATCTGGATCTCTCAGCCGTGGATAACCAGCACCTGTTCTGGTGGCAATGGC
AGGGAAGTGAAATGGACTCTCTGGAGGGCCTTAGCTTTGGTTTTTTAATG
CACTATTTTGTACTGATTGGCCTCCTGCTGGGAGGCACTTTCAAGAGAG
CCTCAGCTATGGTAGTATGG

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TTTACTAGGTTATAAGAACATAAATTATAAAACCAGAGAATAATTATTGA
GTTAATTATACAACTATGCATTAGGTACTCACTTATCCTATTAACTCT
TTTAGCAAATGTAAAGGTTTAGGATCATTATGTTCAATTACAGACAGAAA
GAGAGAGACCTCAAAAATTACATGATTTACAGAGCTAGAAAGTGTAGGAT
TTGGTATTCTAACTCAGATTTATCTGACTCCTAAAGTTGAGGGTCAGCCT
TGCTGCATTCTCTTGCCCTCCACACGAAGCTGTCAGTGACTGCCAAGAGTT
TATATTTTACTCATCCCTTCTAGAGGGCATTGTCATTTAATAAAGTTC
TTCAACACTTTAGCTCAACGGTTATCAAAGTACAGTCTAGGGGTCTCCTG
GGCCCTAAAAACCTTTCAGGAAGTCTGCAAAGTCGAACTATGTTCTTAG
TAATACTTAGATGTTATTTGCCATCTTCACTGTGTTAACGTTTGCACTAA
[A/T]GGTGAAAAAGCAATAGTGGATCTAACTGCCAGCCTAACAAATCAG
GGTAGTGGCACTCAGCTGTTATTGCATTCATCAACATCATCCTCATAGGG
GGGAAAAAGTCCATTTTCTAAGAATATTTATGGTGAAGCAGTAAATATT
ATTAATTTTATTGTATCTCTACCCTTGCATATACTTTTAAATATATTCTG
CAACAAAATGGGACGCAAAACATAAAGCACTTCTGCTGCATAACAAATTTT
CAAGGGAAAGCACTTGTGTGATTGAGCTGTGAGTTGAGCTAGCCACTATT
GTCATGGAACACCATTTTTTTTTCATGAAAAAATGACTGACAGGCCAACTG
GTTATTCAGACTTGGGTATTTGGCAGACATTTTCTCAAAAATGAACAAAG

FIG. 10K2

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TGAGCCTGTCGTTTCAAGGAAAGCGACTGACAGCATTGATGTCAATGAT
AAAATGTGAGTGTTCAAGCAAAAATTAGAATTTTGAAAAATTTATATCTG
CCACA

>SLT_RS1990893

CAGCAGATACGTGGATAAGGAATGTGTGGTATATATACTCAGTGGAATGT
TATTCAGCCATAAAAAATAATGAAATTCTGTCATTTGCAGCAACTTGGGTG
AGGCTGGGGACATTATGTTGAGTGAAATAAACAGACACAGAAAGACAAA
TATTAGATATTCTCACTCATATGTGGGAACTAAAAAAGTTGAGCTCATAA
AAGCAGAGAGTAGAATTGTGGTTACCAGAGTCTGGGAAGGGTACTGGGGG
ATAGGGAAAGGTTGGTTAACAAGGACAAAATTACTGTTAGAGCAATAAGT
TCTAGTGTTCTATAGCACAGCAGGGTGACTATAGTTAACAATAATTTATT
GTTTACTTCATAGTAATTAGAAGGGAGAATTTTGAATGTGCCCAACACAA
AGAAATGATAAAAATTGATTTTCATCATTACACGTCATATACATGTATCAAA
TATCACATGTGCCCCATAAATATGTACAGTTATTGTTTGTGAGTTAAACA
[C/T]AAATTTTTTAAAAGGTGTTTATAAATGTCCTAAATTAAGACACAG
CCTTATCCTACGGGATTTTCTGAAGCTGGCTTCCCCATTTTCTGTTCTCC
ATAGTTATAGGACAGGCTGGCAGGGGCAAGACTCGCTGGGGCCAAAGTAG
ACGTGTATGTTCTTGATGCGAGCTTTATATCCCAAACATATTGATTTTTA
TTCGGGAGTTTACCTAAACCATTTTTAGAGTTATTTCTATGTGCACAAGC
TAATGAATCCAAGGATTCCTGCCTGCTTTGTAAAATAGCATTTTTAGCTA
CTGCTGATCTGACCCCTGGAGGTCTAGTTTTCTGGGACTGTCTGAACCTA
TCTCTGTTCACTCTATCAACGCCCAGCATGCTATTACACACCTCTCTTTA
GTTCTTTCTACAAGAAAGAATTTCTTCACAAGTACAGATACGTGTTTAA
AGAGCCACTCACACATCTCCCTTCTCATCTCTTGGTGTCTAGGAGAAA
TGGAA

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TGGATTCCTATTGCAAGTAGACAACTGGAAGAACTTCCTCTCAGGACACT
GAGGAGAGTTTTCAAATGAAATTGTGATGTCATTTTCCAGAAATATTTT
AGGTTTAAATGAAAGGACACGTGCCTGAAATGGGTAGACAAGTTATTTCC
TCATGGGGTAGGAGAGAACTCACTGAGCTGCATCCCATTTGTAATGGCTGGG
ATTGAAGTTCCTCTTTGGAGGTAGAGGAGAACCAAGTGCTGAGAAGAGGC
AACACAGCTTCAAAGACCTGCCCCAAATCCATCAAAAACAGTTCTTGCTC
TGTCCTTAGGCTGGAGTGCAAGTGGCAGGATTATAGCTCACTGCAGCCTC
GACTTCCCAGGCTCAAGCAATCCTCCCTTGGGCGGGGCCCAAGTAGCCT
CCTGAGTAGCAGGGACCAGAGTTGGTAAATATGCAGATGTGGAACCTCA
GGTTATGGAGGGCCTACTGTACGTGTGTGTGTGTGTGTGTGTGTGTAT
[A/G]TATAGTTAACATTTGCAGTGACACAGATATTTTCATCCCCTCCCT
GAAGATGAGGAGGTGAAGATGGCTACACAACAGTCTCATGGCAGGTTAGC
TGGTCTAAGGAGAAGGTGCTAGAAGGAAGAGGCCTTCTGAAGCTTGTGAC
TCAAGCACTCCCCACTGCTCTGCTTGTATGGTGTAAATAAATGCTATATT
TCGCTCACAAAATATATACAGAATAAGAGCTATGTTTCATATAAAAATGA
CTCTTCTTCTACAGTCTCACTATGTGTTCTGTGAGTACAAGGAGTGAGG
GCTTGGCTCTCTTTACCAAGGCACTGTCTGTCTCCAGCTGTATTACAGC

FIG. 10L2

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ACACATGTAGGTGCACTTATGTACAGATACGCCCTGTCTCACTGACACAG
GACCCAGGGTCAGTTTTTCATTTTGGTGAATGATAATTTCTAGATTAGGTC
ATTTTCATATGGAGTTTGCCTATTGGGGCATCCTAATCTGAGGAAAGGCC
TTTGT

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TTCTTGATGGAGGACTCCGCTTGGTCTGAGATTCACTGGACAGCACGTGG
ATTGCTCTCAGACCCCGTCCCATCAGTTATGGCTAGATCTGGGTGGGGCC
CAACAGCATTCAACATAGCGACCCAGATTTGCCTTCTCAATACAACCATG
GGTAGGGAGGTCCCTCTAGGAGACATGTCTCATATAAAATTATTTTTCCT
TTGCTCTTTCCCATAGGATTTGATAATAAAGTAGTGCAACTCTAAAGGGA
CCAGGAGTCCAGAGAGGTACGTTTGAGTCCCTCTGTCTTATTATGTCTGA
TGTCCAGTTTGCAGCTTTTTTAAATTCTGCCACATATGAGTTCTATTAGAA
TAGACTCTATGAATCCTGGAATTTAACCTTGGCCTTTGTTGTCCATGACT
CAGAGAATACACTCATGTATCTCAGTGCTTGAAAGGAGAATGGGTTATAA
ATTCTGGACCCCTTACTTTAGAGATGAGGAAACAGAGACTTTAGAAATGG
[A/G]TTGATTAATAAATTTTGTAAAGTATGTAAAGGCAGAGACCTACGAAA
CTCACCTCTCAGTACTCCAAATACAGCACTCCTCACTTCACTGCACTGCT
TCCCTGGGAGGAAGAGGCAACTTAGGAGCCAGTGAAGGTGGACACGCGGA
GCTCAAAAGATAGCAGGTGGGCTCATGTTGACACCACCAACCCCATGCT
CACCACCTGAGAATTCAACAGCCAGATTTCTGCTGCCAGGTTGGCTGCTG
GCATCTGCATCCAGCTGACCTGCTTCTAAGATTGAATGCAAGTTTCACTC
AGCCCAACTCTCTACCCATCCCAGTGACCAGCATTGGCTCAGAATCTTCC
ATTCCAGCCCTTGTTTCTCAAAGGGAAAGAGGTCAGCATCTTGGCACATC
TCTTTAAAGTCATGTTTACATGCTGCAGTAGGCTCTCTGGGGAGCTGGAT
AATATTCTGAGCTTAGTGACTTCAGCCTGTATAAACTCATGGAGTATTTA
CTTAT

>SLT_RS2338527

CAAATTGCTTCAAATAAAAGAATGCTGTTTTAAAGATAGATATGGCTCTG
TTGAGGGCTAGAAATCTTGGGCACCAATATCTGTCTTGGAGAGTGTCTTC
TCTCCATCTATCCAATATCGTCTCTTTTAAAAAAAAAAAAAAAAACCGTTT
TTTTGGCCGGGCGCAGTGAATCACACCTGTAATCCCAGCACTTTGGAAGG
CCGAGGCAGGTGGATCACAAGGTCAGGAGTTCAAGACCAGTCTGGCAAAG
ATGGTGAAACCCCGTCTCTACCAAAAATACAAAATTAGCTGGGTGTGGT
GGCGGGCGCCTGTAATCCCAGTACTTGGGAGGCTGAGGCAGGAGAATCA
CTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCGAGATCATGCCACTGCA
CTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAAATTTTTTTTAA
ATTTTCTGAGTATATAGTAGGTATATATATTAGGTTGGTGCAAAAATAAG
[A/G]GTAGTTTTTACCATGAAAAGTAATTGCAAAAACACAGTTACTTT
TGCACCAACCTAATATTTATGGTGATTCTTCTCTATGGTCCTGTTGCTA
TGCCACAAACCACTCCCAGATGGAGTGGCTCAAAAGAACAGTGATCACTA
TTTCTCATGCCTCTGTGGGTTGACTGCACTCTCTAGTTCTTTCTCAAGGT
GTTTCTTGTAGTTGCAGTCAGGTGGCAGCTGGGGCTAGATTGATCTGAAG
GCTGAACCTAGCTAGACTTGCAAGGTGGCCCACTCACATGGCTGCTGGCT

FIG. 10M2

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AGGAGTTTAGCTGAGGCTGCCAATTCAGTAACTGTGTCTCTCCATGTG
GCTTGGATTTCTCTTGGCGTGGCAGCTGGGTTCTGAAGGGAACATCCCAAG
ATACCCAGGTGGAAGCTGCAAGGCTTTTTACGGCCTATTTTGAACCA
TGCTCTGTTATTTCCACCATGTTGACCAAGTTGTAGGGTCAGTCCCAATT
CAAAG

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CACCTCCTTATGGCATACTTGCACCAAGGTGGTGGAGGTGCTTGGGAAAC
CATCTGATTGCATGGCCTCTCTCAGTCTTTTCCCTCCTGTTTTTCTTTTT
CTGGGAAAGACTGCATGAGACCCATATGGCAGGGCAAGTGGGAGCCATAA
TGTGGGTTTCATGAAAGGAGCACGGATAATGGTCACTTCACAGCCTCACTT
TCATTACTGAGAAGGTGGATGGAGGAGAATTACCATGCATCTCATTAAAT
CAATATTTTATTTCCCTCCCTGCTCCCAGCTGCCCTCCCAGCTTTGATCTC
TTTGCCTCTGGGGCAGTGCTGGACAGGTGACTTTCATGATGCAAATCAGG
GTCGGCGGGCTGTCTGCCCAGGCTTTGATCTCCTACCTAAGAGAAGGCTG
GCAAGGAACGCCATGGGCCCCAGCCCCAGGTTCTCTGTAACTTAGGCGA
GGTGGAGCCTGTGGAAGGACTGTTCTTTTGTCTTTGTGAACAGCAGGAGC
[C/T]GTTAAACTACCTGAGTTCAGTAATGTACACCATGTGAAGTGTTG
GAGGAGCTAGACAGGAGAGGGCATCTTGTTTAACAGATATCTATTTATCT
TATTCAAATATAGGTAACTAGCTAAGTTTAGAACAAGGCCAAGGCATTG
AGAAATAATAGATTCTCCACCTGTCATACTGGGGGCTTCTTTTCTTGACT
CTGATAAAAGCTATGCATACTCTCCCTTTCCCAATATTTGTTTTTCTT
CTTTTGCCATCGCTATTGATGCCTAGCCATGGTTCTGGGGTAGAGAGGAA
GAAGGACATGACATAGCGGAAGTGAGAGTTCTTCCCTAAGCACAGTACAG
GCTGACCAGGAAGGGGAGGTAAAAGCAATTCTCAGACGTTGCATTTCTGG
AGCTTACAGGGAGAAAAAGGAAGATAGAGGGAGGAGAGGCAGGGAGAGAC
ATAAATGTCTTCATCTCCTGATGACCAGGAATCTGATGAGTAACGCTTGG
TGCTG

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TTGCCC GCCCACACTCCGCAGCCAGGGCCAAAAGGGCTTTGGCTCCTCTT
ACACAGAAACTGTAGCTGCTTCTGTGGTGAGCCACAGCTCCCCAGGGCCC
GGCCTCTGATGAGGGTCAGTGACGTCATCTTCGGCAGGAGTTTCAGACGG
AGAATTC CCCC AAGACCTCGAAATCAATATGTCTCTG CCCC GCTTTGCCT
TTCCAGCCAGAAAATATGCCATTACTTGACTTTTGTCTGCTGCTTTAAG
ATCTCAGCTTGTTACCAAGCTTGACATGCCTTCTTATTCTCATCTCCGCC
CACCTTCAACCCATTCAATTGAAGCCCAGCTCGAGTATGGTAAACTTCAGA
GCACTTCAGCAATAGAAATTCTCAAAGTTAGCAAAGTCATTTTCCGTTTG
TCCTCTGTGGCTTCTTCAGTACTAGAGAAGAAGCATCGGGGGCTCTAGA
GTACCCTTCCCCCATGTCTTTTGTAGCAGATGCTCTTTTATCTGTTTTAG
ATTTTGAGTTTCTGCATGTAATTATTTTGAAGTGGGACTGAAACAGTTC
AGAACACACCTCCTTATGGCATACTTGCACCAAGGTGGTGGAGGTGCTTG
GGAAACCATCTGATTGCATGGCCTCTCTCAGTCTTTTCCCTCCTGTTTTT
CTTTTTCTGGGAAAGACTGCATGAGACCCATATGGCAGGGCAAGTGGGAG
CCATAATGTGGGTTTCATGAAAGGAGCACGGATAATGGTCACTTCACAGCC

FIG. 10N2

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TCACTTTCATTACTGAGAAGGTGGATGGAGGAGAATTACCATGCATCTCA
TTAAATCAATATTTTATTTCTCCCTGCTCCCAGCTGCCCTCCCAGCTTT
GATCTCTTTGCCTCTGGGGCAGTGCTGGACAGGTGACTTTCATGATGCAA
ATCAGGGTCGGCGGGCTGTCTGCCAGGCTTTGATCTCCTACCTAAGAGA
AGGCTGGCAAGGAACGCCATGGGCCCCAGCCCCAGGTTCTCTGTAACTT
[A/G]GGCGAGGTGGAGCCTGTGGAAGGACTGTTCTTTTGTCTTTGTGAA
CAGCAGGAGCCGTTAACTACCTGAGTTCCAGTAATGTACACCATGTGAA
GTGTTGGAGGAGCTAGACAGGAGAGGGCATCTTGTTTAAACAGATATCTAT
TTATCTTATTCAAATATAGGTTAACTAGCTAAGTTTAGAACAAGGCCAAG
GCATTGAGAAATAATAGATTCTCCACCTGTCATACTGGGGGCTTCTTTTC
TTGACTCTGATAAAAAGCTATGCATACTCTCCCTTTCCCAATATTTGTTT
TTCTTCTTTTGCCATCGCTATTGATGCCTAGCCATGGTTCTGGGGTAGA
GAGGAAGAAGGACATGACATAGCGGAAGTGAGAGTTCTTCCCTAAGCACA
GTACAGGCTGACCAGGAAGGGGAGGTAAAAGCAATTCTCAGACGTTGCAT
TTCTGGAGCTTACAGGGAGAAAAAGGAAGATAGAGGGAGGAGAGGCAGGG
AGAGACATAAATGTCTTCATCTCCTGATGACCAGGAATCTGATGAGTAAC
GCTTGGTGCTGGGGATCTGATGCTCTTCTGCTTCATATTTACAGACTCTCA
GAGTAGATAATTTTACAGGCTGCCTTTATTAGTGTGAATAGAGTTAGGTT
CATGAACATAAATTCTTACATTGTTTTTATATTTCTTATTACATTACAGA
ATTGTAAAAACCTTGTTAGTGCAAGTAATTATTCATAGACTAGCTTCCGG
AAACCTCTGTCTAGACTCTCTACTCACTAGGTTTCTATTTCTGTCTGT
TCCAGTTGGACTTTAGTTGGTTTGTATGTAATAAGGAAAGGAGATCCC
CTCAAATTGCTTCAAATAAAAAGAATGCTGTTTTAAAGATAGATATGGCTC
TGTTGAGGGCTAGAAATCTTGGGCACCAATATCTGTCTTGGAGAGTGTCT
TCTCTCCATCTATCCAATATCGTCTCTTTTAAAAAAAAAAAAAAAAACCGT
TTTT

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TTAACATTTTCACCACTTAATCCTTAAATCCTCCGTTGCCCCGCCACACT
CCGCAGCCAGGGCCAAAAGGGCTTTGGCTCCTCTTACACAGAACTGTAG
CTGCTTCTGTGGTGAGCCACAGCTCCCCAGGGCCCGCCTCTGATGAGGG
TCAGTGACGTCATCTTCGGCAGGAGTTTCAGACGGAGAATTCCCCAAGA
CCTCGAAATCAATATGTCTCTGCCCCGCTTTGCCTTTCAGCCAGAAAAT
ATGCCCATTAATTGACTTTTGTCTGCTGCTTTAAGATCTCAGCTTGTTAC
CAAGCTTGACATGCCTTCTTATTCTCATCTCCGCCCACCTTCAACCCATT
CATTGAAGCCCAGCTCGAGTATGGTAAACTTCAGAGCACTTCAGCAATAG
AAATTCTCAAAGTTAGCAAAGTCATTTCCGTTTGTCTCTGTGGCTTCT
TCAGTTACTAGAGAAGAAGCATCGGGGGCTCTAGAGTACCCTTCCCCCAT
GTCTTTTTGAGCAGATGCTCTTTTATCTGTTTTAGATTTTGAGTTTCTGC
ATGTAATTATTTTGAAGTGGGACTGAAACAGTTCAGAACACACCTCCTT
ATGGCATACTTGACCAAGGTGGTGGAGGTGCTTGGGAAACCATCTGATT
GCATGGCCTCTCTCAGTCTTTCCCTCCTGTTTTCTTTTTCTGGGAAAG
ACTGCATGAGACCCATATGGCAGGGCAAGTGGGAGCCATAATGTGGGTTT
ATGAAAGGAGCACGGATAATGGTCACTTCACAGCCTCACTTTCATTACTG
AGAAGGTGGATGGAGGAGAATTACCATGCATCTCATTAATCAATATTTT
ATTCCTCCCTGCTCCCAGCTGCCCTCCCAGCTTTGATCTCTTTGCCTCT

FIG. 1002

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GGGGCAGTGCTGGACAGGTGACTTTCATGATGCAAATCAGGGTCGGCGGG
CTGTCTGCCCAGGCTTTGATCTCCTACCTAAGAGAAGGCTGGCAAGGAAC
[G/T]CCATGGGCCCCAGCCCCAGGTTCTCTGTAACTTAGGCGAGGTGG
AGCCTGTGGAAGGACTGTTCTTTTGTCTTTGTGAACAGCAGGAGCCGTTA
AACTACCTGAGTTCAGTAATGTACACCATGTGAAGTGTTGGAGGAGCTA
GACAGGAGAGGGGCATCTTGTTTAAACAGATATCTATTTATCTTATTCAAAT
ATAGGTTAACTAGCTAAGTTTAGAACAAGGCCAAGGCATTGAGAAATAAT
AGATTCTCCACCTGTCATACTGGGGGCTTCTTTTCTTGACTCTGATAAAA
GCTATGCATACTCTCCCTTTCCCAATATTGTTTTCTTCTTTTGCCA
TCGCTATTGATGCCTAGCCATGGTTCTGGGGTAGAGAGGAAGAAGGACAT
GACATAGCGGAAGTGAGAGTTCTTCCCTAAGCACAGTACAGGCTGACCAG
GAAGGGGAGGTAAAAGCAATTCTCAGACGTTGCATTTCTGGAGCTTACAG
GGAGAAAAAGGAAGATAGAGGGAGGAGAGGCAGGGAGAGACATAAATGTC
TTCATCTCCTGATGACCAGGAATCTGATGAGTAACGCTTGGTGCTGGGGA
TCTGATGCTCTTCTGCTTCATATTTCACTCTCAGAGTAGATAATTTA
CAGGCTGCCTTTATTAGTGTGAATAGAGTTAGGTTTCATGAACATAAATTC
TTACATTGTTTTTATATTTCTTATTACATTACAGAATTGTAACAACTTG
TTAGTGCAAGTAATTATTCATAGACTAGCTTCCGAAACCTCTGTCCTAG
ACTCTCTACTACTAGGTTTCTATTTCTGTCTTGTTCCAGTTGGACTTTA
GTTGGTTTGTATATGTAATAAGGAAAGGAGATCCCCTCAAATTGCTTCAA
ATAAAGAATGCTGTTTTAAAGATAGATATGGCTCTGTTGAGGGCTAGAA
ATCTTGGGCACCAATATCTGTCTTGAGAGTGTCTTCTCTCCATCTATCC
AATAT

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GACCTCCAGCAAGTCGCTTCACTTCTCTGAGCTGTTTTTCAGACGACCCCT
TGGAAGATCGTGGACTTAAGTAAAGAATATGAGTAGAGTGCTCAGCTCAG
TGCAAAAATTAAAAAAGTGTGAGGAGCCTTATCCGTCCTTGGAT
CTTAACAGTGAATGAGTTTCAGTGTTC[C/T]TTTCCAGGGGCCCTGCTG
GCCGAGCCCCTTCCCTTCCCTGGTTCCTTCTCTCCCTCCTCTACTGCC
TCCTCCCTCCAGGCTCTCGGTGCTCCAGCAAAGTTCCCAACTTAGTCGA
CATGACGC

FIG. 10P2

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Start (B33)	Marker	Public alias	deCODE alias	Variation
167992779	DG5S87			
168014827	DG5S91			
168027019	DG5S1553			
168029068	SLT_703026		SG05S17	A/G
168034952	SLT_697143	rs1864953	SG05S7	C/G
168036088	SLT_696007	rs292487	SG05S44	A/T
168044802	SLT_687289	rs292488	SG05S9	C/T
168048470	SLT_683623		SG05S16	C/G
168051407	SLT_680684	rs898401	SG05S24	C/T
168055569	SLT_676522	rs1368354		C/G
168058856	SLT_673235	rs1864954	SG05S10	C/T
168058869	SLT_673223		SG05S228	A/T
168062704	SLT_669387	rs1314889		C/T
168065178	SLT_666913	rs1432804		G/T
168065189	DG5S1043			
168065529	DG5S92			
168070500	SLT_661589		SG05S15	C/T
168070584	SLT_661505			C/T
168070632	SLT_661457		SG05S14	C/T
168073885	SLT_658204	rs1155191	SG05S11	C/G
168074782	SLT_657307	rs1864952	SG05S12	A/G
168074812	SLT_657277		SG05S13	C/T
168080074	SLT_652015	rs2611845		C/T
168081175	DG5S491			
168082925	SLT_649164	rs2337550	SG05S26	A/G
168086306	SLT_645645	rs1460099		C/T
168090782	SLT_641364	rs1585399		C/T
168096386	SLT_636323	rs2116758	SG05S28	A/C
168098154	DG5S1047			
168102835	SLT_629874	rs2337552	SG05S27	A/G
168112060	SLT_621478	rs2304035		C/T
168116132	SLT_617406	rs1549910		A/G
168116213	SLT_617325	rs1549909		A/G
168116711	SLT_616823	rs870723		A/G
168121401	SLT_612136	rs891923		A/G
168123071	SLT_610466	rs2288798		A/G
168123214	SLT_610323			C/T
168123303	SLT_610234			C/T
168125044	SLT_608499			A/G
168128487	SLT_605050	rs1014194		G/T
168133445	SLT_600093	rs1298695		A/G
168136894	SLT_596643	rs2288792		A/G
168139425	DG5S9			
168143992	SLT_589545	rs871099	DG00AAHUW	A/G
168148230	SLT_585307	rs2292141		C/T
168148494	SLT_585043	rs891921	DG00AAIER	C/T
168148550	SLT_584969		DG00AAIEL	C/T
168152032	SLT_581505		SG05S21	C/T
168152504	SLT_581033			A/G
168152941	SLT_580597		SG05S19	A/T
168153523	SLT_580014			A/G

FIG. 11A

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168153946	SLT_579597		SG05S18	A/G
168154018	SLT_579519			A/G
168154461	SLT_579074		DG00AAIEM	A/G
168154722	SLT_578813		SG05S23	A/G
168158166	SLT_575368			C/G
168162085	DG5S1049			
168162812	DG5S1116			
168168958	SLT_564589		DG00AAIEN	A/G
168169017	SLT_564530		SG05S22	C/T
168180050	SLT_556437		DG00AAIEO	T ins
168185893	SLT_550503		DG00AAIEP	C/G
168185972	SLT_550582		SG05S20	A/G
168201434	SLT_537097	rs1979923		A/G
168205103	SLT_533429	rs1875971	DG00AAHUV	C/T
168212670	SLT_526304	rs1504954	DG00AAILW	A/T
168219891	DG5S1051			
168234201	SLT_504791	rs1466947	SG05S25	A/C
168245982	SLT_525276		DG00AAIMR	A/G
168266982	DG5S876			
168286866	DG5S97			
168288672	rs1982063	rs1982063	DG00AAFLD	A/G
168288956	rs891958	rs891958	DG00AAFCV	A/G
168315048	rs1036205	rs1036205	DG00AAFLA	A/G
168324273	D5S2052			
168324772	DG5S1120			
168327100	rs1432910	rs1432910	DG00AAFLN	A/G
168334817	DG5S1053			
168369069	DG5S879			
168375019	rs2163783	rs2163783	DG00AAFLM	A/G
168376530	DG5S880			
168378412	D5S400			
168387458	SLT_317099	rs731717		A/G
168390480	rs2879135	rs2879135	SG05S29	C/T
168395631	DG5S881			
168408798	rs1560666	rs1560666		C/T
168422609	DG5S1122			
168432072	rs2055911	rs2055911	DG00AAIMQ	A/G
168437381	rs188432	rs188432	DG00AAFKY	A/C
168437926	rs295985	rs295985	DG00AAFKW	C/T
168448832	rs296008	rs296008	DG00AAFDB	A/G
168460666	rs295998	rs295998		A/G
168462590	rs296001	rs296001	DG00AAFDA	G/C
168467031	rs295994	rs295994	DG00AAFLI	G/C
168469421	rs295997	rs295997	DG00AAFCW	A/C
168478938	rs295981	rs295981	DG00AAFLH	C/T
168483522	rs2668054	rs2668054	DG00AAFLB	A/G
168491409	rs188431	rs188431	DG00AAFLE	G/T
168499686	D5S2043			
168507409	rs297835	rs297835	DG00AAFLC	C/T
168513014	DG5S1056			
168517553	rs297825	rs297825	DG00AAFKZ	A/G
168526697	rs297818	rs297818	DG00AAFKX	G/C

FIG. 11B

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168530546	rs297823	rs297823	DG00AAFL	A/G	
168531494	rs297863	rs297863	DG00AAFLO	A/G	
168535394	SLT_169267	rs1006329		C/T	
168537647	rs297868	rs297868	DG00AAFLK	A/G	
168538316	rs182435	rs182435		G/T	
168554788	DG5S1058				
168555634	rs172472	rs172472	DG00AAFCY	C/T	
168555718	rs297898	rs297898	DG00AAFCX	G/T	
168565763	DG5S1060				
168569742	D5S2075				
168592111	DG5S883				
168607241	SLT_96349		DG00AAIHU	A/T	
168613336	SLT_90256	rs972031		A/G	
168613791	SLT_89801	rs1421764	DG00AAIHQ	A/G	
168627546	DG5S1645				
168663904	SLT_10323	rs1862217		C/T	
168666183	SLT_8967	rs1422028	DG00AAIHR	C/G	
168666252	SLT_8898	rs1422029	DG00AAIHV	C/G	
168666372	SLT_8778	rs1422030	DG00AAIHS	C/T	
168677067	SLT_278	rs1592818	DG00AAIHT	G/T	
168679845	SLT_rs1592817	rs1592817	SG05S445	A/G	
168683356	SLT_rs1024973	rs1024973	SG05S109	C/T	
168685815	SLT_rs1422032	rs1422032	SG05S110	A/G	
168692798	SLT_rs1422031	rs1422031	SG05S111	A/G	
168696369	SLT_rs1001869	rs1001869	SG05S960	A/G	
168705783	SLT_rs1422035	rs1422035	SG05S448	A/C	
168709664	SLT_rs1895203	rs1895203	SG05S961	A/G	
168710854	SLT_rs918408	rs918408	SG05S449	A/G	
168713378	SLT_rs1019461	rs1019461	SG05S963	C/T	
168714327	SLT_rs981957	rs981957	SG05S450	C/T	
168715977	DG5S38				
168719742	SLT_rs1422021	rs1422021	SG05S451	C/T	
168726284	SLT_rs1120391	rs1120391	SG05S119	A/G	
168726695	SLT_rs2338654	rs2338654	SG05S120	A/G	
168737548	rs2112330	rs2112330		A/G	
168751101	SLT_rs2112335	rs2112335	SG05S121	A/T	
168768610	SLT_rs1990893	rs1990893	SG05S122	C/T	
168770226	DG5S37				
168770326	SLT_rs1862215	rs1862215	SG05S123	A/G	
168776041	SLT_rs731398	rs731398	SG05S124	A/G	
168777278	SLT_rs2338527	rs2338527	SG05S125	A/G	
168778570	SLT_rs2112332	rs2112332	SG05S126	C/T	
168778626	SG05S458		SG05S458	A/G	
168778661	SG05S459		SG05S459	G/T	

FIG. 11C

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>D5S2043: 168499686 - 168499956

GATCTTGCCGGAATAGATACCCTTCCCTGCTTCCCGCTGTGAAGAAGC
TGTTTCTNTCTCTCTCTCTCTCTCTCTCTCTCTCTGTGTGTGTGTG
TGTGTGTGTGTGTGTAGATAGAAAGAGAAGAGGGGGAGATTAATTGAGAG
AGAGAAGGGGAGAATGAACATTGGAATCCAATGAGGAAATGTCCTTGTA
GTNCCTATCCCATCCGTAGAGTTGGGCGAGGTAAAGTAGGTTCCCTGTGCT
TTTNAAGGCCTGATGGTCTGAATCTAAGGAGTCTTCCACAGAAGACCTG
TCATGAGAAGCTGTCGGGAAGTCCAGATTAAAGAAGCTCATGCATAATCA
TGCTCGCCCCTTGGTGAAGCTTTCTGG

>D5S2052: 168324273 - 168324633

GATCACCAGGGAATCTAGATGGAATCCATAGTNCTNCCCTGCAAGAATGC
TGCAATTCTGTACCGTGGAGNGCCAACAGAATCACCAGGCTCTGTGACT
CAGTCACAACACCCTGACCTGCCCTGTCCATTCTCCATATCATACCCAG
AGTGGTCTTTTCAAAGCACAGCTTTGACCAATTCTCTGTCTTTCACACAT
ACACACACACACACACACACACACATGCGTGCATGCATGCCTGAAATA
GTATAGTATTGCTCTTAAGATAAACATTAANGTTCCTACCATGGTACAGA
AAATATATGTNGTTAGGCCCGTGGCTCTTTCTTTCCAGACTCCTCTTA
CCCTTTTGTG

>D5S2075: 168569742 - 168570114

TATTGAAGGCACAAGAGTGTGAATGTGGAGCCCTTGCCTTCATCCACAA
TTGAAAATATGTTATTTGTGTTAGGTAACTACCTCTGTTTCATCCTANACT
GGCTCTAACTTGGAGATGACGTTGAATTCTTTTCAGGATGGACTTGGTGC
CGTATGTA
TGTGTATGTAAACAGAGAAAGATAGTGGTCCAGAGGCCAACACACCTGG
AATCTATTTGTGAGGGNCCCTGCNTCAGTCCACGAATTGGGCCATTCAAT
TATTTCTCAGTAAGTGAACATCTGGGATTCAGTTTGAAACGCCAATNAGT
TTGGATGGGATTTCAAAGCT

>D5S400: 168378412 - 168378696

AGCTATGATCATGCCACTGCACTCCAGCCTGGCTGATAGAATGAGATTCT
GACTCAGAAAAATATAAACACACACACACACACACACACACACACACA
CACACACACACACAACCTTTCTGTCTGCCCCCTTGCTCTTCCTGTCCCA
TCTCTGCCTTTCTTCTTTCTCTTTGTCAAATCTCCTTCGTCTGCCTC
ACAAAGGCCAGTGAGCCCCAGCCGACAGGGAAGCCAGCAAATTAGG
AATTTCTTCACAAAGTTTTGAGTAGCT

>DG5S1043: 168065189 - 168065333

ACTTGGCACCAACCAAAGACCTGAAAAAGTATTTTAGTCACTCACATTCA
GCCCTGCCTCAGACCCCAAGCATCATCATCATCATCATCATCATCAT
CATCATCATCGCTATTATTTATGGAGCTGCCATTACATGCTAGG

FIG. 12A

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>DG5S1047: 168098154 - 168098393
AATGCAGGAATCCAGGAAGAATTTTAAGTGGCATGATCCAATTCTCATT
TAGAAATACTACCCTGGAGGAAGAAGAAGAGAATGAACAGCAAGAGGAAC
ATTATCTTTCAATAAGCTATGTGTATTATTGGATGGAGATGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATCTATCTGTCTATAT
GTATGTGTATGTATATTTAAAATGTGTTGGCCACCAGTG

>DG5S1049: 168162085 - 168162330
ATTTGAGCCAGTGTGCAAGGAAGACAGTGTCTGACATATCAAAAGCCCTC
AATAAATGGTAAATGTTTCATATTATCACCACCACCACCACCACCAATGTT
TCCACACACTCCAGGACCTTTTAACCAGGTGACTTGCAGACATGCCCTG
TGCCGGCCGTGCCCTGCCAGGCTCCCTGGCATCATGTTGACTTCTGTAT
TGCTAGAAATATATTGTGTTTAGTCACATGTTTGCAAATGACAGA

>DG5S1051: 168219891 - 168220039
GCCATAGTCCGACAAGGTCAAATATCCTTGTCATCTGATTCCTGAGCAAA
CTGTTTTTATTTTCCACTAAATCACATCATCTTAAAACAAAACAAAACA
AAACAAAACAAAACAAAACAAAACAAAACCTCTACTGCTGGCAAATGAGAAA

>DG5S1053: 168334817 - 168334988
CCATAATCCACCCAGTTGCTCCAGCCAAAAACCTAAGACTCTTTCTTTTC
TGATTTCTCTCTTCACACACACACACACACACACACACACACACACAC
ACATGTTGTCCTGCAGCTAGCCATCAACAAGCCAGGTTGAATCTAACTCC
TTACCTGATCCCTCAAGGTCG

>DG5S1056: 168513014 - 168513140
CTGCTCCATTACTCCATTCAAAGTTTGTACATCCCTATGTGAGGTAAGGG
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGTGAGTGAAATAGAATGGGAT
GGGAAATTGTTCCCTCGATCCCACTCT

>DG5S1058: 168554788 - 168555167
GTTGTGGCCACCATTCTCATTCCCAGTGGTTGCATTTAATGCCTACTTGT
GCAGCCAAACACTGCATATAGGCTCTGGGATAAATTGGGAAACATGAAAC
ACATGTCAGTGTGTGCACTTACGAATGAGTTCTGAATTAGGAATATATAT
TTCTATATGTCTATACACACACACACACACACACACACACACACAGAG
ACTATATACATAAATTTATTTTAAAAGGGCACTTTGCTGGAACAAGAACA
GGCAAGGGTTGGCTGGTATTCCAATCATGCAGTGGTCTCGCTTGCCTTCT
CTAGGACACACCTGCACTTTGTGAGGTCTCCTCTTGCTGTGTGCCCCATC
TCTCTGGCTCAGTCGCCCTAGCTGACTTT

FIG. 12B

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>DG5S1060: 168565763 - 168566015

TGGTCTGACTGCCTGAAATGGATCTGGCCAGCTCTGAAGTTATAAATGAC
TATTAACCTTGCATGTACATTATTATCTGCTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGCACATTCACATGCACGCATAAATATGTGCTTTC
TTCCACCCTAGATATGTTTTCTTGGAGTCTGAGCCCTAGTGTACTAATAT
ATACCCTTGACAATCTTCTGGGGCTCCCCAGAGACCCATGCCCTTGACT
TT

>DG5S1116: 168162812 - 168163199

AAACATGTAAACTGGATGGGAGAGTCTAATACACTTTACCTTTCTTTCTT
TCTTTCTTTTTTTTGAGACAGAATTTTGCTCTCATTGCCCAGGCTAGAGT
GCAATGGTGTGATCTTGGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGT
GATTCTCCTATCTCAGCCTCCCAAGTAGCTGGGATTACAGACACCCACCA
CCATGCCCAGCTAATTTTTTTGTATTTTAGTAGAGATGGGTTTCACCGT
GTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAGGTGATCCAACCGCCTC
AGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCAGCCAA
CAGTCTACCTTTCTGAAGAACCATGAGGACCAATGGT

>DG5S1120: 168324772 - 168324983

AAGAGAAAGGCGGGAAACAGAACAGCCTCCCATAAATCATTATTTGTCTG
GGGAAAAAGTCTCTGACAGATATGTGGGGTACCACTGTGTGTGTGTGTAT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGGGGTGGGGGGTGTGGTTTGATT
TCCAAGGCAGAATTTCACTGTCTGATCCTGTCTGGAGGGCAGAATGCTTG
TGCTCTCCACA

>DG5S1122: 168422609 - 168423023

TTTGGGCTGATATAGACTGGGTAGTTCATAAGCAACAAAATTTATTTCTC
AGTGTTTTTTGTGTTGTTGTTGTTGTTGTTGTTGAGATGGAGTCTTGCT
CTGTCACCCAGGCTGGAGTACAATGGTGCGATCTTGGCTCACTGCAACCT
CTACCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTG
GGACTACAGGTGTGTGTGCCACCACACCCAGCTAATCTTTGTATTTTAG
TAGAGACAGGGTTTCACCGTGTTGACCAAGCTGGTCTTGAGCTCCTGACT
TCAGATGATTCACCGGCCTTGGCCTCCCAAAGGGCTGGGATTACAGCCAT
GAGCCGCTGCGCGTGGCCTATTTCAAACAGTTCTAGACACTGGAAGTTCC
AGATCAGGATGCCA

>DG5S37: 168770226 - 168770418

GCAGGGACCAGAGTTGGTAAATATGCAGATGTGGAACCTCAGGTTATGG
AGGGCCTACTGTACGTGTGTGTGTGTGTGTGTGTGTGTGTATATATAGTT
AACATTTGCAGTGACAGATATTTTCATCCCCTTCCCTGAAGATGAGGAG
GTGAAGATGGCTACACAACAGTCTCATGGCAGGTTAGCTGGT

FIG. 12C

>DG5S38: 168715977 - 168716367

>DG5S491: 168081175 - 168081342

>DG5S876: 168266982 - 168267134

>DG5S879: 168369069 - 168369202

>DG5S880: 168376530 - 168376775

>DG5S881: 168395631 - 168395815

FIG. 12D

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>DG5S883: 168592111 - 168592265

ACTGCTCCTCTCCCTCATCATCACGGCCCAAGAGTGATGAATAAGGA
GAGAGAGAGAGAGAGAGAGAGAGAAGAATTTATTTGACTAAGTACGCT
TTACATTTTACTCATTGGCTTTAGTCCATCTCTTAGGTCAAACATCCCA
TGCC

>DG5S9: 168139425 - 168139680

TGATGTGGTGTGGTGTGGTATGGGGGGTGTGTGTGTGTGTGTGTGTGT
GT
AGGATTGAAAAAACACATATATGTGGCATGACGCAAAATGCTGCAATAAG
GATTCCATCCTCAGGCTATCAAATGGGCACCTCTGACCTGTTGTGTACTG
AATAGTTCAGTGTTCCTTGACAAGATGATGTACTCAGAAGGCCCTGAATG
TCAAG

>DG5S91: 168014827 - 168015078

AAGCTCGGGTACTTCCTCCTACACATTACCTTGTTGGAATGTGTGTGTGT
GT
CTCCCAGGCTGGAATGCAGCGGTGCAATCACAGCTCACAGCAGCCTCGAC
CTCCCAGGCTCAAGTGATCCTCCACCTCAGCCTCCTGCATAGCTAGGAC
TACAGGCGTGCACCACCACACTCAGCTACCTTGTTGGATTTAATTGGCAC
C

>DG5S92: 168065529 - 168065864

TTTAAAGGAAGCCAGTCAGGATTCCTGGCCATGTCCTACACACACACACA
CACACACACACACACACACACACACACACACACACAAAGTGGGATG
AGGGGTAGAAAGTGTGGTGGAGGACCAAGGAGCACCACAAATCTGGTAGA
TTTGAGCAAAATGAGGCTGAAGAGAATTGAATCAGGCTAATTAACCAGGC
GTTGGCAATAGTGATTATTTTCAAGGAGAGGTAAGTGACAGAAATCCCC
ACTTCCAGGCCCAATTACCATGTCATCAAGCGCTAGGCTCTGCCTCCTGG
ATTTCTGTGCTTGCGTAAAGGGCTGCAGGAGTTG

>DG5S97: 168286866 - 168287096

GGCAGAGGCAGAGTGAGCTACACACACACACACACACACATACACACACA
CACACCCTTACACACCCTTAAATGTTTCCTTATTAATTATACTGGCTTGCA
TTGAACTGAGGTGTAAGTGGTCGATTTGGACTCCTTTCCTAAAAGAAGGG
TTTGAGAGGGGAGGAGTGAGAGAGATGGAGGGTACTGGGTCCCAACCCGC
AGGAAGGAGAGAAGCAGGACATGGGAAGAG

>DG5S1553: 168027019 - 168027156

CAATGGTGGGCCAAAGACGCAGGGAATAATGAAGGGAGAAAGAAAAGAAA
GGAAGATGGAGGAAAACGAGGCAACTGGAAGAAGGAAGGAAGGAAGAAG
GAAGGGATGGAGGGGATGAAGAGAAGGGAGAGAGGGA

FIG. 12E